DO NOT SCALE DRAWINGS. NO PART OF THE BUILDING SHALL BE USED AS A STAGING AREAS RESULTING IN A LOAD (UNDER THE LIMITED LOADED AREA) THAT EXCEEDS THE

DESIGN LOADS. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF MATERIALS, FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN LOAD CRITERIA ABOVE, AND FOR LOADS INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSE WORK, STAGING, BRACING, SHEETING AND SHORING, ETC.

DEVELOPING AND IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING AND NEW UTILITIES AND SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE DURING CONSTRUCTION.

NO CHANGE IN SIZE, DIMENSION, OR POSITION OF STRUCTURAL ELEMENTS SHALL BE MADE, NOR SHALL ANY OPENINGS OR SLEEVES BE PERMITTED THROUGH ANY STRUCTURAL ELEMENT, WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD, UNLESS DETAILED AND SPECIFICALLY NOTED AND APPROVED ON THE SHOP DRAWINGS. PROVIDE SEPARATE SHOP DRAWINGS INDICATED ALL PENETRATIONS THROUGH STRUCTURAL

ELEMENTS FOR APPROVAL, PRIOR TO THE SUBMISSION OF THE SHOP DRAWINGS FOR THE AFFECTED STRUCTURAL ELEMENTS. ALL COSTS OF INVESTIGATION AND REDESIGN, DUE TO THE CONTRACTOR MIS-LOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF

CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. SLEEVES, CHASES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, REVEALS, DRIPS, FINISHES, DOORS AND OTHER SUCH PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. ANY SUCH ITEMS SHOWN ON STRUCTURAL DRAWINGS ARE INDICATED FOR

INFORMATION ONLY. APPEARANCE OF SAME ON STRUCTURAL DRAWINGS IS NOT MEANT TO CONVEY ACTUAL LOCATION OR EXTENT OF WORK. M. SEE ARCHITECTURAL DRAWINGS FOR DETAILED INFORMATION REGARDING FINISHES, WATERPROOFING, FIREPROOFING, ETC. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DRYWALL PARTITIONS AND PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. UNLESS SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL BE DESIGNED TO LATERALLY BRACE THE TOPS OF THE WALLS FOR THE CODE REQUIRED LATERAL LOAD. PROVIDE COMPRESSIBLE FIRE-SAFING AT THE TOP OF RATED WALLS AS SPECIFIED BY THE

ARCHITECTURAL DRAWINGS. PROVIDE ANY ADDITIONAL COMPONENTS NEEDED TO ACCOMMODATE THE INSTALLATION OF EQUIPMENT OF ANY NATURE. COORDINATE SUCH WORK WITH THE EQUIPMENT SUPPLIER. INCORPORATE SUCH REFINEMENTS ON THE SHOP DRAWINGS, AND OBTAIN THE EQUIPMENT SUPPLIER'S APPROVAL (CLEARLY DISPLAYED ON THE DRAWINGS) PRIOR TO SUBMITTING THE SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER FOR APPROVAL.

ALL HANGERS FOR OTHER MECHANICAL PIPING AND EQUIPMENT SHALL BE CONNECTED TO THE STEEL BEAMS ONLY. ALL PIPE GROUPS SHALL BE SUPPORTED ON TRAPEZES WHICH SHALL BE SUSPENDED FROM STEEL BEAMS OR JOISTS. CONTRACTOR MAY PROVIDE SECONDARY MEMBERS SPANNING BETWEEN STRUCTURAL BEAMS AS NEEDED. UNLESS NOTED OTHERWISE, HANGERS SHALL BE LOCATED TO KEEP THE EQUIVALENT UNIFORM LOAD UNDER 10 PLF.

THE WEB AND BOTTOM FLANGE OF STEEL BEAMS SHALL NOT BE USED FOR THE LATERAL SUPPORT OF CLADDING SYSTEMS UNLESS A KICKER IS PROVIDED AT THE POINT OF BRACING. THE SLOPE OF THE KICKER SHALL NOT BE STEEPER THAN 2 HORIZ TO 1 VERT.

PART 1 (CONTINUED) - GENERAL REQUIREMENTS AND DESIGN CRITERIA

1.6 SHOP DRAWINGS

A. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS ARE REQUIRED TO BE SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE STRUCTURAL ENGINEER. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, TARANTINO ENGINEERING CONSULTANTS (TEC) WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT.

UNAUTHORIZED REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RE-SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

SHOP DRAWINGS FOR HANGER LAYOUT ABOVE MECHANICAL ROOMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR STRUCTURAL REVIEW SHALL CONSIST OF ELECTRONIC DRAWINGS. ONLY ONE MARKED UP SET OF ELECTRONIC

DRAWINGS WITH THE STRUCTURAL ENGINEER'S COMMENTS WILL BE RETURNED TO THE CONTRACTOR. AT THE TIME OF SHOP DRAWINGS SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DRAWINGS.

ALLOW 10 BUSINESS DAYS FOR STRUCTURAL REVIEW OF SHOP DRAWINGS. THIS TIME SHOULD BE ALLOTTED IN THE CONTRACTOR'S SCHEDULE. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THEY HAVE VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAVE CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

DELEGATED DESIGN: THE CONTRACTOR SHALL SUBMIT FOR REVIEW, SIGNED AND SEALED DRAWINGS AND CALCULATIONS PREPARED BY A SPECIALTY STRUCTURAL ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION FOR THE FOLLOWING ASSEMBLIES. THIS REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT'S PARAMETERS AS INDICATED ON THE DRAWINGS, SPECIFICATIONS AND GENERAL NOTES. THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER WHO HAS SIGNED AND SEALED THESE DRAWINGS AND CALCULATIONS. THESE SUBMISSIONS SHALL BE MADE AVAILABLE IN CONJUNCTION WITH OR PRIOR TO THE SHOP DRAWING FOR THE PRIMARY BUILDING STRUCTURE THAT

1. CFMF AND CURTAIN WALL SYSTEMS AND RELATED CONNECTIONS: a. DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. BACK-UP SYSTEMS AND CURTAIN WALLS SHALL BE DESIGNED FOR A MAXIMUM LATERAL DEFLECTION OF L/600 OF THE SPAN IN INCHES OR 3/8" WHICHEVER IS LESS FOR THE APPLICABLE DESIGN WIND LOAD. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL CLEARLY SHOW THE LOAD PATH AND THE REACTIONS AS APPLIED TO THE MAIN BUILDING STRUCTURE.

2. METAL STAIRS: a. DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED BY THE STRUCTURAL ENGINEER OF RECORD TO SUPPORT STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE INDUCED INTO THESE MEMBERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING EMBEDS AND

RAILINGS AND GUARDRAILS: a. DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES, INCLUDING LIVE LOAD OF 50 PLF AND 200# CONCENTRATED LOAD. WHERE RAILINGS WILL BE EMBEDDED IN THE TOP OF A CONCRETE WALL, A STEEL SLEEVE MUST BE USED.

4. STEEL CONNECTIONS: a. DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES INCLUDING ALL MOMENT AND AXIAL EFFECTS. STEEL SHOP DRAWINGS SHOWING THE CONNECTIONS SHALL BE DESIGNED, SIGNED AND SEALED BY AN

ENGINEER LICENSED IN THE JURISDICTION. 5. PRECAST PANEL SYSTEMS AND RELATED CONNECTIONS: a. DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. PRECAST

WALLS SHALL BE DESIGNED FOR A MAXIMUM LATERAL DEFLECTION OF L/200 OF THE SPAN IN INCHES FOR THE APPLICABLE DESIGN WIND LOAD (L/240 AT PANELS WITH THIN BRICK). THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL CLEARLY SHOW THE LOAD PATH AND THE REACTIONS AS APPLIED TO THE MAIN BUILDING STRUCTURE. TEMPORARY BRACING AND LIFTING FORCES/STRESSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SPECIALTY ENGINEER.

PRECAST PANEL BRACING SPECIAL STEEL JOISTS.

TEMPORARY CONDITIONS SUCH AS NEEDLING, SHORING AND BRACED EXCAVATION. MEP ANCHORAGE AND BRACING.

HARDWARE AS REQUIRED BY THE STAIR DESIGN.

CONTRACTOR SHALL FURNISH DIMENSIONED SHOP DRAWINGS LOCATING FLOOR AND ROOF EDGES FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR SHALL FURNISH DIMENSIONED SHOP DRAWINGS SHOWING LOCATIONS OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES FOR

REVIEW BY THE MEP, ARCHITECT AND STRUCTURAL ENGINEER.

CONTRACTOR SHALL FURNISH DIMENSIONED EQUIPMENT LAYOUT DRAWINGS SHOWING LOCATIONS OF ALL EQUIPMENT, AS APPROVED BY OWNER, PRIOR TO SUBMITTING RELATED STRUCTURAL SUBMITTALS AND PRIOR TO FABRICATION AND INSTALLATION.

PART 3 - CONCRETE

3.1 STANDARD SPECIFICATIONS AND REFERENCE STANDARDS: A. "ACI MANUAL OF CONCRETE PRACTICE - PARTS 1 THROUGH 5", AMERICAN CONCRETE INSTITUTE."MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE.

FOLLOW THE LATEST RECOMMENDATIONS AND SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE: SPECIFICATION OF STRUCTURAL CONCRETE

ACI 302 GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE

ACI 304 GUIDE TO HOT WEATHER CONCRETING

ACI 315 GUIDE TO DETAILING REINFORCING STEEL

ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 347 GUIDE TO FORMWORK FOR CONCRETE

STANDARD SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS 8. ACI 117

3.2 CONCRETE MIX PROPERTIES:

A. ELEMENT (NORMAL WEIGHT UNO)

3,000 PSI 0.55 FOOTINGS: F0, S0, W0, C1 FOUNDATION WALLS: 4,000 PSI 0.50 F1, S0, W0, C1 SLAB ON GRADE (INTERIOR): 4,000 PSI 0.48 3% F0, S0, W0, C0 5.000 PSI 0.40 **6**% F3, S0, W0, C2 EXTERIOR CONCRETE: PRECAST PANELS: 5,000 PSI 0.40 6% F3, S0, W0, C1 AIR CONTENT OF TROWEL FINISHED FLOORS SHALL NOT EXCEED 3%.

PUMP MIXES: MAXIMUM WATER/CEMENTITIOUS MATERIAL (W/CM) RATIO MUST BE MAINTAINED. IF ADDITIONAL WORKABILITY IS REQUIRED FOR PUMPED PLACEMENT, THE HIGH OR MID-RANGE WATER REDUCERS SHALL BE USED IN LIEU OF ADDITIONAL WATER. MAXIMUM SLUMP WITHOUT ADMIXTURES = 4"

28-DAY STRENGTH W/CM MAX(b) AIR CONTENT(a) EXPOSURE CATEGORIES

AIR CONTENT INDICATED AS TARGET, +- 1 1/2%

ASTM C150, TYPE I OR III. USE TYPE II IN MARINE OR SUBMERGED ENVIRONMENTS PORTLAND CEMENT: CEMENT SUBSTITUTES: ASTM C595, TYPE LS (LIMIT TO 50% MAX OF CEMENTITIOUS CONTENT BY WEIGHT)

AGGREGATES / DENSITY: MAXIMUM COARSE AGGREGATE SIZE = 3/4" TYPICAL, 1/2" MAXIMUM AT SLABS 3" OR LESS ASTM C33 / 145 PCF - NORMAL WEIGHT AIR-ENTRAINMENT: ASTM C260 (ALL CONCRETE EXPOSED TO WEATHER AND WITHIN 4'-0" OF FINISHED GRADE).

SHOP DRAWINGS: CONCRETE MIX DESIGNS SHALL BE MADE BY AN APPROVED LABORATORY FOR ALL CONCRETE AND SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR APPROVAL BEFORE USE. THE MIX MUST CLEARLY NOTE WHERE THE CONCRETE IS INTENDED TO BE USED. CALCIUM CHLORIDE SHALL NOT BE PERMITTED IN CONCRETE IN ANY MANNER.

3.3 BASE PLATE GROUT: 6,000 PSI 28-DAY COMPRESSIVE STRENGTH, NON-METALLIC, NON-SHRINK.

3.4 STEEL REINFORCEMENT:

ASTM A615 GRADE 60 DEFORMED REINFORCING BARS: WELDABLE DEFORMED REINF. BARS: ASTM A706 OR APPROVED EQUAL. ASTM A497 OR A185 (FLAT SHEETS ONLY)

3.5 CONCRETE COVER:

WELDED WIRE REINFORCEMENT (WWR): MILD REINFORCED CONCRETE

3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BAR OR LARGER 2 IN. #5 BAR OR SMALLER 1½ IN.

> SLABS, WALLS, AND PRECAST #11 BAR OR SMALLER ¾ IN.

PART 3 (CONTINUED) - CONCRETE

3.6 GENERAL REQUIREMENTS:

A. REINFORCEMENT AT OPENINGS: UNLESS DETAILED OTHERWISE, PROVIDE 2 - #6 AT EACH SIDE OF ALL OPENINGS IN WALLS AND SLABS AND EXTEND A LENGTH EOUAL TO Ld BEYOND THE OPENING OR AS DETAILED. EXCEPT VERTICAL BARS AT SIDES OF OPENINGS IN WALLS ARE TO EXTEND FROM FLOOR TO FLOOR. BARS MAY BE MOVED ASIDE AT OPENINGS OR SLEEVES, BUT DO NOT CUT OR OMIT.

PROVIDE (2) #4 X 4'-0" AT SLAB MID DEPTH AT ALL RE-ENTRANT CORNERS OF FLOOR SLAB (BOTH ELEVATED AND SLAB ON GRADE). MINIMUM REINFORCEMENT: REINFORCE ALL WALLS WITH AT LEAST #4 @ 12 IN. EACH WAY EACH FACE AND 2 - #6 EACH EDGE, UNLESS DETAILED

CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES. HOPPERS, VERTICAL CHUTES, OR TRUNKS SHALL BE USED IN SUFFICIENT NUMBERS SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET AND TO ENSURE CONCRETE IS KEPT LEVEL AT ALL TIMES.

EXISTING SURFACE TREATMENT: PRIOR TO PLACING FRESH CONCRETE AGAINST CONCRETE IN PLACE, THE CONTACT SURFACES SHALL BE CLEANED. ALL LAITANCE SHALL BE REMOVED, AND A CHEMICAL BONDING COMPOUND APPLIED. WHERE NOTED, ROUGHEN EXISTING CONCRETE SURFACES

COMMON WITH NEW CONCRETE TO AMPLITUDE OF 1/4 INCH. F. FORMWORK, SHORING AND RESHORING: SHALL BE DESIGNED AND SUBMITTED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S

JURISDICTION WITH ALL SUBMISSIONS BEARING THE ENGINEER'S SEAL AND SIGNATURE. ALL KEYS SHALL BE 1.5" DEEP UNLESS NOTED OTHERWISE. INSERTS AND SLEEVES: CONTRACTOR SHALL FURNISH DIMENSIONED SHOP DRAWINGS AT ALL LEVELS SHOWING LOCATIONS OF ALL CAST-IN-PLACE SLEEVES, INSERTS AND OPENINGS REQUIRED BY ALL TRADES FOR REVIEW BY THE MEP, ARCHITECT AND STRUCTURAL ENGINEER, IN THAT ORDER. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS SHOWN ON THE APPROVED SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN

CORES AND DRILLED FASTENERS: DRILLED OR POWDER DRIVEN FASTENERS WILL BE PERMITTED WHEN PROVEN TO THE SATISFACTION OF THE STRUCTURAL ENGINEER THAT THE FASTENERS WILL NOT SPALL THE CONCRETE OR DAMAGE EXISTING REINFORCEMENT.

CORE DRILLING OF FOUNDATIONS, BEAMS, JOISTS, COLUMNS OR ANY POST-TENSIONED MEMBER SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.

WHEN INSTALLING EXPANSION OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. ALL BOLTS AND ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S

FLOOR SLABS SHALL BE FINISHED TO A MINIMUM FLATNESS F-NUMBER FF=20 AND A MINIMUM LEVELNESS F-NUMBER F1=17 IN ANY DIRECTION. ALL CONCRETE SHALL BE CURED WITH LIQUID SEALING COMPOUND CONFORMING TO ASTM C-309, TYPE 1 AND FEDERAL SPECIFICATION TT-C-00800 OR OTHER APPROVED METHOD WHICH IS COMPATIBLE WITH FLOORING ADHESIVES AND OTHER TREATMENTS.

ALL INTERIOR CONCRETE SHALL RECEIVE A STEEL TOWELED FINISH. EXTERIOR SLABS ON GRADE TO RECEIVE A BROOM FINISH, UNLESS NOTED OTHERWISE. SUBMIT FINISHED SCHEDULE TO ARCHITECT FOR APPROVAL.

CHAMFER ALL EXPOSED CONCRETE CORNERS,3/4 IN. X 3/4 IN. MINIMUM, UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS. M. WATERSTOPS: AS SPECIFIED ON THE ARCHITECTURAL DRAWINGS, PROVIDE CONTINUOUS WATERSTOPS AT ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN ALL BELOW GRADE FOUNDATION WALLS, ELEVATOR PITS AND OTHER PIT WALLS.

CONCRETE QUANTITIES: THE CONCRETE SLABS SHALL BE FINISHED, WITHIN TOLERANCE AND FLOOR FLATNESS REQUIREMENTS, TO THE ELEVATIONS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE AT THEIR COST, ADDITIONAL CONCRETE AS REQUIRED DUE TO FORMWORK

DEFLECTION TO ACHIEVE THIS FINISHED TOP OF SLAB ELEVATION. REFER TO PART 5B FOR CONCRETE PLACEMENT AT SLABS ON DECK. LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE. A CONCRETE STRUCTURE MAY NOT SUPPORT ITS DESIGN LIVE LOAD UNTIL IT HAS REACHED ITS SPECIFIED STRENGTH. CONTRACTOR SHALL SUPPORT ADJACENT STRUCTURES, UTILITIES, AND EXCAVATIONS AS REQUIRED FOR COMPLETION OF WORK.

IT IS NOT PERMISSIBLE TO DELAY THE APPLICATION OF CURING COMPOUND UNTIL THE MORNING AFTER THE CONCRETE IS CAST. CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.

CONDUITS IN CONCRETE SLABS SHALL BE SPACED SUCH THAT THE CENTER TO CENTER DISTANCE BETWEEN CONDUITS IS A MINIMUM OF THREE TIMES THE OUTSIDE DIAMETER OF THE LARGEST CONDUIT. CONDUITS IN CONCRETE SLAB HAVING OUTSIDE DIAMETER LARGER THAN ONE THIRD OF THE SLAB THICKNESS SHALL NOT BE PERMITTED. CONDUITS

THAT CROSS EACH OTHER WITHIN THE SLAB SHALL NOT CONSUME MORE THAN ONE THIRD OF THE SLAB THICKNESS AT THE POINT OF INTERSECTION. FOR ELEVATED SLABS WHICH ARE ON A DECK, THICKNESS SHALL BE DEFINED AS THE CLEAR DIMENSION ABOVE THE RIBS. ALUMINUM CONDUITS WILL NOT BE PERMITTED IN CONCRETE ELEMENTS.

AT STOOPS AT EXTERIOR DOORS, PROVIDE 5' x 5' STOOP WITH TURNDOWN ALL EDGES TO FROST DEPTH, UNO.

3.7 SPLICING AND PLACEMENT OF REINFORCEMENT:

WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. MAKE BARS CONTINUOUS AROUND CORNERS. WHEN PERMITTED, SPLICES SHALL BE MADE BY CONTACT TENSION LAP SPLICE, UNLESS NOTED OTHERWISE. SPLICE WELDED WIRE REINFORCEMENT TWO FULL MESH LENGTHS AND WIRE TOGETHER.

SPLICE BARS AS SHOWN ON DRAWINGS BUT NOT LESS THAN 50 BAR DIAMETERS FOR SLABS AND BEAM BOTTOM BARS, AND NOT LESS THAN 65 BAR DIAMETERS FOR WALLS AND BEAM TOP STEEL.

NO WELDING OF REINFORCING SHALL BE PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER WELDED WIRE REINFORCING SHALL HAVE ENDS LAPPED ONE FULL PANEL AND SPLICE LACED WITH WIRE.

ANY MECHANICAL SPLICES USED, MUST BE "TENSION-COMPRESSION" TYPE AND SHALL COMPLY WITH ACI 318 UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER. SHOP DRAWINGS SUBMITTED FOR THE ENGINEER'S APPROVAL MUST INDICATE THE USE AND THE TYPE OF ANY MECHANICAL SPLICES USED. PROVIDE #4 CHAIR BARS, HIGH CHAIRS, TIES, CLIPS, SLAB BOLSTERS AND OTHER ACCESSORIES WHERE NOT SPECIFIED ON THE DRAWINGS IN

ACCORDANCE WITH MANUAL OF STANDARD PRACTICE OR DETAILING REINFORCING CONCRETE STRUCTURES ACI 315 OR CRSI MANUAL OF STANDARD PRACTICE. USE PLASTIC TIPS ON ALL CHAIRS PLACED ON THE SIDES OF CONCRETE FORMWORK.

PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IS IN CONTACT WITH THE BOLSTERS OR CHAIRS

3.8 REINFORCEMENT SHOP DRAWINGS:

A. SUBMIT FOR APPROVAL, COMPLETE BENDING AND PLACING DETAILS OF ALL REINFORCEMENT INCLUDING WELDED WIRE REINFORCEMENT, INDICATING POSITION OF SPLICES. INCLUDE ACCESSORY DRAWINGS. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315 AND ACI 318.

B. UNAUTHORIZED REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RE-SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

3.9 HOUSEKEEPING PADS AND CURBS:

PADS AND CURBS MAY BE SHOWN ON PLAN IN CERTAIN INSTANCES FOR REFERENCE ONLY. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND COORDINATE WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS. USE SAME CONCRETE AS BASE SLAB,

UNLESS DETAILED OTHERWISE. MAXIMUM PAD THICKNESS IS 6 INCHES AT ELEVATED LEVELS. PROVIDE 4" CONCRETE PADS REINFORCED WITH #3 REBAR AT 12" E.W. AT MID DEPTH AT ALL EQUIPMENT SUPPORTED ON SLABS ON GRADE OR ON FRAMED FLOORS UNLESS NOTED OTHERWISE. USE LIGHTWEIGHT CONCRETE FOR ALL PADS ON FRAMED FLOORS. PAD SHALL EXTEND 6" MINIMUM ON ALL SIDES OF THE EQUIPMENT.

3.10 CONSTRUCTION JOINTS:

SUBMIT SHOP DRAWINGS INDICATING JOINT LAYOUT FOR ARCHITECT/ENGINEER APPROVAL.

3.11 CONCRETE SLAB ON GRADE CONSTRUCTION:

A. THE CONCRETE SLABS ON GRADE FOR THIS PROJECT HAVE BEEN DESIGNED UTILIZING A MODULUS OF SUBGRADE REACTION "K" EQUAL TO 150 PCI FOR ALL WAREHOUSES, LOADING DOCKS, AND OTHER STORAGE AREAS, AND A MODULUS OF SUBGRADE REACTION "K" EQUAL TO 100 PCI FOR ALL OTHER AREAS OF THE CONCRETE SLABS ON GRADE

PLEASE NOTE THAT THE CONCRETE SLABS ON GRADE THROUGHOUT THIS PROJECT ARE NOT DESIGNED TO SUPPORT THE CRANES USED DURING THE ERECTION OF THE STRUCTURAL STEEL OR PRECAST WALL PANELS. IF THE CONTRACTOR ELECTS TO PLACE THE CRANE ON THE CONCRETE SLAB ON GRADE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL NECESSARY PRECAUTIONS, INCLUDING THE TEMPORARY INSTALLATION OF WOOD CRIBBING ON THE SLAB, IN ORDER TO PREVENT CRACKS FROM FORMING IN THE SLAB ON GRADE. ALL CRACKS WHICH FORM IN THE CONCRETE SLABS ON GRADE DUE TO THE CRANE BEING PLACED ON THE SLAB WILL BE REPLACED OR REPAIRED TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND OWNER AT THE CONTRACTOR'S EXPENSE.

3.12 ARCHITECTURAL PRECAST CONCRETE:

REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR TYPE AND LOCATION OF PANELS.

DESIGN SHALL BE IN ACCORDANCE WITH ACI AND PCI REQUIREMENTS BY THE PRECAST MANUFACTURER'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION FOR THE LIVE, SUPERIMPOSED DEAD, AND LATERAL LOADS REQUIRED BY THESE DOCUMENTS. ALL SUBMITTALS SHALL BEAR THIS ENGINEER'S SEAL AND SIGNATURE.

PRECAST MEMBERS MAY REQUIRE ELECTRICAL CONDUIT, JUNCTION BOXES, OPENINGS, ETC. FOR THE PASSAGE OF UTILITIES. THEY MAY ALSO REQUIRE INSERTS, PLATES AND ANCHORS FOR THE ATTACHMENT OF OTHER EQUIPMENT. SEE ARCHITECTURAL AND MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ITEMS REQUIRED AND THEIR POSITIONING. COORDINATE WITH APPROPRIATE TRADES. CHAMFERS, REVEALS, REGLETS, ETC. ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS.

METHOD AND LOCATIONS OF ATTACHMENT SHALL BE IN ACCORDANCE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS UNLESS INDICATED SUBMIT CALCULATIONS FOR PRECAST MEMBERS SHOWING A RATIONAL COMPLETE LOAD PATH, INCLUDING EFFECTS ON SUPPORTING MEMBERS.

ENGINEER SHALL BE SOLELY FOR THE PURPOSE OF EVALUATING THE IMPACT OF THESE LOADS ON THE SUPPORTING STRUCTURAL SYSTEM.

CONNECTIONS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE INDUCED IN THE SUPPORTING MEMBERS. CALCULATIONS

SHALL CLEARLY INDICATE ALL LOADS IMPOSED UPON THE SUPPORTING STRUCTURAL SYSTEM. REVIEW OF THE CALCULATIONS BY THE STRUCTURAL

PENNEY DESIGN

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384 www.penney design group.com

Tarantino Engineering Consultants, PC 8115 Maple Lawn Blvd, Suite 350

Fulton, MD 20759

TEC 410-921-7678 www.tarantinoec.com

Ъ 4 ONSTRUCTION

S

Massey Cadillac South

2698 J LAWSON BLVD

ORLANDO, FL 32824

NTARAN No. 88354 Digitally signed by Brian Tarantino Tarantino Date: 2025.01.16 15:13:45 -05'00'

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

license number: PE88785 expiration date: 02/28/2025

12/11/2024 PERMIT SET SONIC PRICING SET 12/10/2024 11/07/2024 SONIC FINAL REVIEW 90% SUBMISSION 10/17/2024

09/10/2024 60% SUBMISSION / DDP2 . ISSUE / REVISION

SHEET NUMBER

GENERAL

NOTES

A. "STEEL CONSTRUCTION MANUAL", FIFTEENTH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION INC, 2017, (INCLUDING THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS, AND THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES).

B. "STRUCTURAL WELDING CODE - STEEL", AWS D1.1, AMERICAN WELDING SOCIETY.

5A.2 STRUCTURAL SHAPES:

A. WIDE FLANGE SHAPES: ASTM A992

ANGLES, PLATES AND CHANNELS: ASTM A36 ASTM A53, TYPE E, GRADE B, FY=35 KSI OR ASTM A501 STRUCTURAL PIPE

ASTM A500, GRADE B, FY=42 KSI ROUND HSS SHAPES: RECTANGULAR HSS SHAPES: ASTM A500, GRADE B, FY=46 KSI

5A.3 FASTENERS, CONNECTORS: HIGH STRENGTH BOLTS: ASTM A325-N (UNLESS DETAILED OTHERWISE) TENSION-CONTROL BOLTS ACCEPTABLE.

ANCHOR RODS: ASTM F1554, GRADE 36 (UNLESS DETAILED OTHERWISE) SMOOTH OR THREADED ROD: ASTM A36

HEADED SHEAR STUDS: ASTM A108, GRADE 1015 OR 1020

WELDING ELECTRODES: CONFORM TO AWS SPECIFICATIONS FOR ELECTRODES BASED ON WELDING

PROCESS AND THE TYPE AND GRADE OF STEEL. E70XX ELECTRODES (MIN.) FOR FILLET WELDS. EXPANSION ANCHORS (CONCRETE): HILTI KWIK BOLT TZ2 EXPANSION ANCHORS, ICC ESR-4266, UNO.

ADHESIVE ANCHORS (CONCRETE): HILTI HIT HY 200 ADHESIVE ANCHORS, ICC ESR-4868, UNO.

SCREW ANCHORS (CONCRETE): HILTI KH-EZ (KWIK HUS) CONCRETE SCREWS, ICC ESR-3027, UNO. ALL POST-INSTALLED ANCHORS: SHALL BE INSTALLED & INSPECTED PER MANUFACTURER'S RECOMMENDATIONS. UNLESS OTHERWISE NOTED EMBED BOLTS 10 BOLT DIAMETERS.

5A.4 SHOP DRAWINGS:

A. ERECTION AND DETAIL DRAWINGS. MILL TEST RECORDS.

CONNECTION CALCULATIONS.

A. PROVIDE ANCHOR RODS, STEEL WEDGES, THREADED SCREWS OR SHIMS TO SUPPORT AND PLUMB ALL COLUMNS. GROUT SOLID UNDER BASE PLATES IMMEDIATELY AFTER COLUMNS ARE PLUMB.

B. PROVIDE BEARING PLATES AND WALL ANCHORS OR ANCHOR RODS FOR ALL BEAMS RESTING ON CONCRETE AND ALL OTHER NECESSARY CONNECTING HARDWARE. SET ANCHOR RODS USING TEMPLATE.

C. DO NOT FIELD CUT, SPLICE, OR FIELD MODIFY ANY STRUCTURAL STEEL WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER FOR EACH SPECIFIC CASE.

THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE. GAS CUTTING TORCHES SHALL NOT BE USED TO CORRECT FABRICATION ERRORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE FABRICATOR AND ERECTOR ARE RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING AND RECOMMENDED ERECTION PROCEDURES.

5A.6 CONNECTIONS:

ALL CONNECTIONS, SPLICES AND ERECTION PIECES SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE.

ALTERNATE CONNECTION DESIGNS SHALL ONLY BE ALLOWED WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATION. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.

PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIAL AND WORKMANSHIP.

CONNECTIONS SHALL BE SELECTED FOR REACTIONS AS SHOWN ON PLANS AND AS DETAILED AND SCHEDULED. NO CONNECTION SHALL CONSIST OF LESS THAN (2) 3/4 IN. DIAMETER A325-N BOLTS OR WELDS DEVELOPING LESS THAN 15,000 POUNDS (FACTORED). MINIMUM WELD: 3/16 IN. FILLET.

UNLESS DETAILED OTHERWISE, ALL A325 BOLTS SHALL BE TIGHTENED TO THE 'SNUG TIGHT' CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. THE SNUG TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIALS HAVE BEEN BROUGHT INTO SNUG CONTACT.

ALL A325 BOLTS SUBJECT TO DIRECT TENSION INCLUDING MOMENT. TRUSS, & BRACING CONNECTIONS, OR DESIGNED AS SLIP CRITICAL (NOTED SC IN DETAILS) SHALL BE PRE-TENSIONED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS AS DESCRIBED IN THE AISC "MANUAL OF STEEL

CONSTRUCTION": TURN-OF-NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING, OR DIRECT TENSION INDICATOR TIGHTENING. ALL STEEL TUBE CONNECTIONS TO BEAMS AND COLUMNS SHALL BE END PLATE CONNECTIONS, UNO.

MINIMUM BEARING PLATE THICKNESS SHALL BE 1/2 IN., UNO. WHEN INSTALLING POST-INSTALLED ANCHORS (EXPANSION BOLTS, ADHESIVE ANCHORS, SCREWS), THE CONTRACTOR SHALL TAKE MEASURES TO NOT DAMAGE ANY EXISTING REINFORCING. ALL BOLTS AND ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL

WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE ENGINEER MAY REQUEST SUCH EVIDENCE AT ANY TIME DURING THE PROJECT.

A. PAINT: SHOP PRIME ALL STEEL NOT ENCASED IN CONCRETE OR NOT FIREPROOFED. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FINISH COAT REQUIREMENTS.

ALL STEEL AT AND BELOW FINISHED GRADE OR FLOOR SLAB SHALL RECEIVE TWO (2) COATS OF BITUMINOUS PAINT OR 3 IN. MINIMUM CONCRETE

ALL STRUCTURAL STEEL THAT IS LOCATED IN EXTERIOR AND UNHEATED SPACES AND WHICH IS EXPOSED FOR AESTHETICS, INCLUDING STEEL DIRECTLY EXPOSED TO WEATHER, SHALL BE POWER-TOOLED CLEANED AND PAINTED OR GALVANIZED ACCORDING TO DETAILS AND ARCHITECT'S SPECIFICATIONS. FOR MEMBERS THAT EXTEND FROM EXTERIOR TO INTERIOR SPACES, APPLIES FULL LENGTH.

5A.8 FRAMING:

BEAMS ARE EQUALLY SPACED, UNLESS DIMENSIONED OTHERWISE ON PLAN.

FABRICATE AND ERECT BEAMS WITH THE NATURAL AND MILL CAMBER UP.

CANTILEVER BEAMS ARE SAME SIZE AS BACKSPAN, UNLESS NOTED OTHERWISE ON PLAN. CAMBER INDICATED ON THESE DRAWINGS IS THE REQUIRED CAMBER AT THE TIME OF ERECTION BEFORE PLACEMENT OF DECK.

PART 5B - STEEL DECK AND SHEAR STUDS

5B.1 CODES:

"DESIGN MANUAL FLOOR DECKS AND ROOF DECKS", STEEL DECK INSTITUTE.

AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

"STRUCTURAL WELDING CODE - STEEL", AWS D1.1, AMERICAN WELDING SOCIETY. "STRUCTURAL WELDING CODE - SHEET STEEL", AWS D1.3, AMERICAN WELDING SOCIETY

5B.2 MATERIALS: GALVANIZED METAL DECK

A653 (G90)

5B.3 GENERAL: A. DECK PROPERTIES ARE BASED ON PRODUCTS MANUFACTURED BY VULCRAFT. DECKS BY OTHER MANUFACTURERS MAY BE SUPPLIED PROVIDED

B. PROVIDE STEEL DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES: <u>IP (IN^4)</u> 0.201 1-1/2" DEEP - 20 GAGE, TYPE B, ROOF DECK (1.5B)

OVER AT LEAST THREE SPANS, WITH LAPS TO BE PLACED OVER SUPPORTS, UNO.

SECTION PROPERTIES ARE WITHIN 5% OF THOSE SPECIFIED AND IF APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.

C. INSTALL IN ACCORDANCE WITH SDI SUGGESTED SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS. INDIVIDUAL SHEETS SHALL EXTEND EXCEPT WHERE NOTED ON PLANS, DECK SUPPLIER SHALL PROVIDE ALL ADDITIONAL FRAMING TO SUPPORT DECK AT OPENINGS THROUGH DECK AND

ALL CLOSURE ANGLES AND PLATES WERE REQUIRED TO RESULT IN A COMPLETE INSTALLATION. USE WELDING WASHERS FOR DECK MATERIAL 0.028 IN. THICK OR LESS AND WHERE RECOMMENDED BY THE DECK MANUFACTURER.

ROOF AND NON-COMPOSITE DECKS SHALL BE WELDED TO STEEL SUPPORTS, INCLUDING THE EDGE SUPPORT PARALLEL TO THE DECK SPAN WITH 5/8 IN. DIAMETER (EFFECTIVE FUSION DIAMETER) PLUG WELDS IN 24/3, 30/4, OR 36/4 PATTERNS, UNO. FASTEN SIDE LAPS WITH 1-1/2" SEAM WELDS OR #10 SELF-TAPPING SCREWS AT A MAXIMUM SPACING OF 12" OC, UNO.

PART 5C - STEEL JOISTS

A. "STANDARD SPECIFICATION FOR K-SERIES, LH-SERIES, AND DLH-SERIES OPEN WEB STEEL JOISTS AND FOR JOIST GIRDERS", STEEL JOIST INSTITUTE.

5C.2 STEEL JOISTS: PROVIDE OPEN-WEB STEEL JOISTS CONFORMING TO THE REQUIREMENTS OF THE SJI. FOR SIZE, TYPE, LENGTH AND SPACING SEE THE CONTRACT

DOCUMENTS. PROVIDE BOTTOM CHORD EXTENSIONS AT ALL COLUMNS AND WHERE SPECIFIED BY THE ARCHITECTURAL DRAWINGS.

5C.3 UPLIFT: A. DESIGN AND ANCHOR ROOF JOISTS TO RESIST MINIMUM NET UPLIFT (LRFD) AS SPECIFIED ON DRAWINGS. JOIST MANUFACTURER SHALL PROVIDE ADDITIONAL BRIDGING AS NEEDED TO BRACE THE BOTTOM CHORD, INCLUDING THE FIRST PANEL POINT FROM THE SUPPORT, TO RESIST ASSOCIATED COMPRESSION STRESSES.

5C.4 BRIDGING: PROVIDE BRIDGING AND CROSS-BRACING CONFORMING TO THE REQUIREMENTS OF THE SJI. JOIST SUPPLIER TO PROVIDE CONNECTIONS FOR CROSS BRACING. ALL BRIDGING, BRIDGING ANCHORS AND JOIST SEATS SHALL BE COMPLETELY INSTALLED PRIOR TO THE APPLICATION OF ANY CONSTRUCTION LOADS.

5C.5 CONCENTRATED LOADS:

A. APPLY SUSPENDED OR ROOF TOP CONCENTRATED LOADS AT PANEL POINTS OR PROVIDE SUPPLEMENTAL FRAMING TO TRANSFER LOADS TO PANEL

JOISTS USED IN MANUFACTURING, STORAGE WAREHOUSES, REPAIR GARAGES SHALL CONSIDER CONCENTRATED LIVE LOADS ON THE BOTTOM CHORD OF ROOF MEMBERS FOR 2,000# LOCATED ANYWHERE ALONG THE BOTTOM CHORD, IN ACCORDANCE WITH IBC CHAPTER 16 TABLE 1607.1. LOCAL BEND CHECKS SHALL BE PERFORMED BY THE JOIST MANUFACTURER.

5C.6 SPECIAL JOISTS:

A. JOIST NOTED '###-SPJ' ON PLAN HAVE SPECIAL DESIGN REQUIREMENTS THAT ARE DETAILED ON THE DRAWINGS. THESE JOISTS SHALL BE DESIGNED BY THE JOIST MANUFACTURER'S ENGINEER FOR THE LOADINGS INDICATED AND SUBMIT SIGNED AND SEALED CALCULATIONS.

5C.7 PAINT:

A. SHOP PRIME ALL STEEL JOISTS NOT FIREPROOFED. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FINISH COAT REQUIREMENTS. ALL STEEL JOISTS THAT ARE LOCATED IN EXTERIOR AND UNHEATED SPACES AND WHICH ARE EXPOSED FOR AESTHETICS. INCLUDING DIRECTLY EXPOSED TO WEATHER, SHALL BE POWER-TOOLED CLEANED AND PRIMED WITH A ZINC-RICH PRIMER ACCORDING TO DETAILS AND ARCHITECT'S SPECIFICATIONS. FOR MEMBERS THAT EXTEND FROM EXTERIOR TO INTERIOR SPACES, APPLIES FULL LENGTH.

PART 5D - STRUCTURAL COLD FORMED METAL FRAMING (CFMF)

A. "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", AMERICAN IRON AND STEEL INSTITUTE, AISI

"NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING - GENERAL PROVISIONS", AMERICAN IRON AND STEEL INSTITUTE, AISI

5D.2 MATERIALS:

A. STEEL SHEET: ASTM C955, OF GRADE AND COATING WEIGHT AS FOLLOWS: GRADE: 33 KSI MIN, 50 KSI FOR 16 GA & THICKER, OR AS REQUIRED FOR STRUCTURAL/ARCHITECTURAL PERFORMANCE

COATING: G60 OR AS REQUIRED BY ARCHITECTURAL PERFORMANCE. STEEL SHEET FOR CLIPS: ASTM A 653, STRUCTURAL STEEL, ZINC COATED, OF GRADE AND COATING AS FOLLOWS: GRADE: 50 KSI MIN, OR AS REQUIRED FOR STRUCTURAL PERFORMANCE.

COATING: G90. STRUCTURAL STEEL SHAPES AND CLIPS: ASTM A 36, ZINC COATED BY HOT-DIP PROCESS ACCORDING TO ASTM A 123.

5D.3 ANCHORS AND FASTENERS:

A. ANCHOR BOLTS: ASTM F 1554, GRADE 36, THREADED CARBON-STEEL AND CARBON-STEEL NUTS; AND FLAT, HARDENED-STEEL WASHERS: ZINC COATED BY HOT-DIP PROCESS ACCORDING TO ASTM A 153, CLASS C.

EXPANSION ANCHORS: HILTI KWIK BOLT TZ EXPANSION ANCHORS. INSTALL PER HILTI INSTALLATION RECOMMENDATIONS. UNLESS OTHERWISE NOTED EMBED BOLTS 10 BOLT DIAMETERS.

POWDER-ACTUATED ANCHORS: MANUFACTURED BY HILTI OR APPROVED EQUAL.

MECHANICAL FASTENERS: ASTM C 1513, CORROSION-RESISTANT-COATED, SELF-DRILLING, SELF-TAPPING STEEL DRILL SCREWS. HEAD TYPE: LOW-PROFILE HEAD BENEATH SHEATHING, MANUFACTURER'S STANDARD ELSEWHERE.

WELDING ELECTRODES: COMPLY WITH AWS STANDARDS.

5D.4 FRAMING SIZES: A. FRAMING MEMBERS SHALL BE OF THE TYPE AND GAUGE CALLED FOR ON THE DRAWINGS OR AS REQUIRED FOR STRUCTURAL PERFORMANCE.

B. USE 18 GA MINIMUM FOR STRUCTURAL MEMBERS, EXTERIOR WALLS, AND MEMBERS SUPPORTING MASONRY.

5D.5 FRAMING SIZES:

A. THE CONTRACTOR SHALL DESIGN THE COLD FORMED METAL FRAMING SYSTEMS NOT INDICATED ON THE DRAWINGS AND SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS. THE FRAMING SYSTEMS SHALL CONFORM TO THE CONCEPTS INDICATED ON THE DRAWINGS AND WITH THE MINIMUM SIZES AND GAUGES INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

COLD-FORMED STEEL FRAMING DESIGN, GENERAL: DESIGN ACCORDING TO AISI'S "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS.

HEADERS: DESIGN ACCORDING TO AISI'S "STANDARD FOR COLD-FORMED STEEL FRAMING - HEADER DESIGN." DESIGN EXTERIOR NON-LOAD-BEARING WALL FRAMING TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION

ROOF TRUSSES: DESIGN ACCORDING TO AISI'S "STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN."

5D.6 GENERAL:

A. DESIGN OF ALL COLD-FORMED METAL FRAMING SYSTEMS AND CONNECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION, FOR ALL FRAMING SIZES AND CONNECTIONS NOT INDICATED ON THE DRAWINGS. CALCULATIONS AND SHOP DRAWINGS CONSISTING OF FRAMING PLANS, ELEVATIONS, AND DETAILS SHALL BE SUBMITTED BEARING THIS ENGINEER SEAL AND SIGNATURE.

MEMBER DESIGNATIONS AND PROPERTIES ARE BASE ON DIETRICH INDUSTRIES, INC. STEEL FRAMING CATALOG. FRAMING BY OTHER MANUFACTURERS MAY BE SUPPLIED PROVIDED SECTION PROPERTIES EQUAL OR EXCEED THOSE SPECIFIED AND IF APPROVED BY THE ARCHITECT AND STRUCTURAL

ALL DIMENSIONS SHOWN ON THE STRUCTURAL DOCUMENTS SHALL BE VERIFIED WITH THE ARCHITECTURAL AND MECHANICAL DOCUMENTS PRIOR TO

CONTENTS OF THESE STRUCTURAL DOCUMENTS SHOW THE INTENDED APPLICATION OF COLD-FORMED FRAMING COMPONENTS.

ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT

AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.

SPLICES IN STUDS, JOISTS, OR OTHER LOAD CARRYING MEMBERS ARE NOT PERMITTED. ALL STRUCTURAL COLD-FORMED METAL FRAMING (EXCLUDING STUDS) MEMBERS SHALL BE UN-PUNCHED UNLESS SPECIFICALLY NOTED OTHERWISE. LATERAL BRIDGING SHALL BE USED TO PROVIDE LATERAL STABILITY OF LOAD BEARING STUDS, SPACED AT 4'-0" OC VERTICALLY, UNO. FOR AXIAL

TO LOADING THESE MEMBERS AND UNTIL SHEATHING IS PROPERLY ATTACHED TO BOTH STUD FLANGES. CONTRACTOR SHALL NOT OVERLOAD BEARING MEMBERS DURING CONSTRUCTION. CONNECTIONS SHALL BE BY WELDING, SCREWING, OR OTHER APPROVED FASTENING DEVICES OR METHODS PROVIDING POSITIVE ATTACHMENT AND RESISTANCE TO LOOSENING. FASTENERS SHALL BE OF COMPATIBLE MATERIAL. WHENEVER POSSIBLE, CONNECTIONS SHALL FOLLOW THE RECOMMENDATIONS MADE BY THE METAL LATH AND STEEL FRAMING ASSOCIATION. THE CONTRACTOR SHALL CONFIRM THAT THE FASTENERS THEY

LOAD BEARING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ADEQUATE WALL BRACING/BRIDGING IS IN PLACE PRIOR

INTEND TO USE MEETS OR EXCEEDS THE DESIGN VALUES SHOWN IN THE SUBMITTED CALCULATIONS. IF WELDING, CARE MUST BE TAKEN TO NOT BURN COLD FORMED METAL. TOUCH-UP ALL WELDS (IF USED) WITH ZINC RICH PAINT. FOR FASTENERS PROVIDE THE MINIMUM CLEARANCES, FASTENER SPACING, AND EDGE DISTANCE AS NOTED BELOW, UNLESS OTHERWISE NOTED OR

DETAILED: FASTENER TYPE SPACING EDGE DISTANCE SCREWS: ½ IN. ½ IN.

POWDER DRIVEN FASTENERS (STEEL):

POWDER DRIVEN FASTENERS (CONCRETE):

M. ALTERNATE CONNECTION DESIGNS SHALL ONLY BE ALLOWED WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. IF SUCH APPROVAL IS GRANTED, ALL CONNECTIONS AND/OR DETAILS NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE PREPARED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE.

1½ IN.

4 IN.

½ IN. 3 IN.

N. ATTACH ALL EXTERIOR SHEATHING AND INTERIOR SHEATHING AT BEARING WALLS TO METAL STUDS WITH #6 SCREWS SPACED AT 6" OC AT ALL

PANEL EDGES AND INTERMEDIATE SUPPORTS, UNO. WHERE EXTERIOR CLADDING IS SUPPORTED BY COLD FORMED METAL FRAMING OR HAT CHANNELS (CLADDING WEIGHT NOT TO EXCEED 10 PSF), SHEATHING ON CFMF TO BE 5/8 IN. THICK ADVANTECH OR PLYWOOD, EXPOSURE 1, STRUCTURAL 1 SPAN RATING 40/20. ATTACH TO CFMF (SPACED

AT 16" OC MAXIMUM) WITH #10 SCREWS SPACED AT 8" OC AT ALL CFMF, AND AT PARAPETS #10 SCREWS SPACED AT 6" OC AT ALL CFMF, UNO. THE CONTRACTOR SHALL SUBMIT FOR REVIEW DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION, FOR THE EXTERIOR COLD-FORMED METAL FRAMING SYSTEM AND RELATED CONNECTIONS. THE DESIGN SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY THE APPLICABLE BUILDING CODES. THIS REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECTS PARAMETERS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES. THE DESIGN OF THIS SYSTEM IS THE RESPONSIBILITY OF THE ENGINEER WHO HAS SIGNED AND SEALED THE SHOP DRAWINGS AND CALCULATIONS. REFER TO PART 1.

PART 31 - FOUNDATIONS / EARTHWORK / GEOTECHNICAL REPORT

31.1 REFERENCE GEOTECHNICAL REPORT:

A. FOUNDATION DESIGN IS IN ACCORDANCE WITH THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT PREPARED BY ECS FLORIDA, DATED NOVEMBER 28, 2023, AUTHOR'S PROJECT NUMBER 24:7489. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK/ CONTRACT DOCUMENTS.

B. SEE THE GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION, SUITABILITY AND REPLACEMENT OF THE BEARING MATERIAL, AND PREPARATION OF THE SUBGRADE FOR THE FOUNDATIONS AND THE SLAB ON GRADE, INCLUDING COMPACTION PROCEDURES.

C. IF UNSUITABLE BEARING MATERIAL IS DISCOVERED THE GEOTECHNICAL ENGINEER SHALL BE ALERTED.

31.2 FOUNDATION DESIGN PARAMETERS

A. ALL FOUNDATIONS SHALL BEAR A MINIMUM OF 12" BELOW ADJACENT EXTERIOR GRADE. THE CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH ALL UNDERGROUND UTILITIES, TUNNELS, ETC. AND NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENTS.

B. SHALLOW FOUNDATIONS: BUILDING SPREAD AND STRIP FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SOILS OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL WITH AN ALLOWABLE BEARING PRESSURE OF 2500 PSF.

31.3 EXCAVATION:

THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOUNDATIONS SHALL NOT EXCEED 30 DEGREES REFERENCED FROM THE HORIZONTAL, UNLESS NOTED OR DETAILED OTHERWISE ON THE PLAN. MAINTAIN A 1V:2H SLOPE FROM BOTTOM EDGE OF ANY EXCAVATION, OR AS REQUIRED BY GEOTECHNICAL RECOMMENDATIONS OR OSHA REQUIREMENTS.

THE CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK. CONTRACTOR SHALL COORDINATE THE EXTENT OF THE EXCAVATION, SHORING AND BRACING WITH THE CIVIL ENGINEERS'S DRAWING AND REFER TO THOSE DRAWINGS AND SPECIFICATIONS FOR RELATED INFORMATION NOT COVERED IN THE STRUCTURAL DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, ABOVE AND BELOW GRADE STRUCTURES, ETC.. WHETHER INDICATED OR NOT. THAT MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.

UTILITIES LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL UNLESS DETAILED OTHERWISE IN THE PLANS.

ALL SHORING, TEMPORARY BRACED EXCAVATION (INCLUDING STAGED UNDERPINNING PITS), SHEETING AND DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR'S ENGINEER, REGISTERED IN THE PROJECT'S JURISDICTION, SHALL DESIGN THE SHEETING AND SHORING, AND BRACED EXCAVATION AND PROVIDE SIGNED AND SEALED SUBMITTALS FOR REVIEW.

31.4 BACKFILL UNDER SLAB ON GRADE:

31.6 STRUCTURAL FILL:

BACKFILL WHERE REQUIRED BELOW SLABS WITH APPROVED GRANULAR SOIL PLACED IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS. FOLLOWING REQUIRED STRIPPING OPERATIONS, ANY PROOFROLLING SHALL BE AS DIRECTED BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER. THE PURPOSE OF PROOFROLLING WILL BE TO LOCATE ANY ISOLATED AREAS OF SOFT OR LOOSE SOILS REQUIRING IMPROVEMENT OR REPLACEMENT. SOFT AREAS SHALL BE UNDERCUT AND REPLACED WITH PROPERLY COMPACTED MATERIALS.

31.5 FOUNDATION PLACEMENT & PROTECTION:

GEOTECHNICAL ENGINEER.

A. DO NOT PLACE FOUNDATION CONCRETE IN WATER OR ON FROZEN GROUND. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE. DO NOT USE SALT OR CHLORIDE COMPOUNDS TO DE-ICE THE SITE.

NEW FOOTING BEARING ELEVATION IS TO MATCH ADJACENT EXISTING FOOTING BEARING ELEVATION WHERE APPLICABLE UNLESS NOTED OR DETAILED OTHERWISE ON PLAN.

CONCRETE FOR FOUNDATIONS SHALL BE POURED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER. BEARING ELEVATIONS INDICATED ON THE DRAWINGS ARE ESTIMATED FROM SOIL BEARING DATA INDICATED IN THE GEOTECHNICAL REPORT. PRIOR TO PLACING FOUNDATIONS, AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER SHALL FIELD VERIFY ALLOWABLE BEARING PRESSURES AND DETERMINE FINAL BEARING ELEVATIONS.

REFER TO GEOTECHNICAL REPORT REQUIREMENTS FOR COMPACTED STRUCTURAL FILL. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT

ARE PART OF THIS WORK. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY AN EXPERIENCED, QUALIFIED

PENNEY DESIGN GROUP

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384 www.penneydesigngroup.com



٥ ₄ CONSTRUCTION

S

Massey Cadillac South

2698 J LAWSON BLVD

ORLANDO, FL 32824



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE

OF FLORIDA. license number: PE88785 expiration date: 02/28/2025

	PERMIT SET	12/11/2024
	SONIC PRICING SET	12/10/2024
	SONIC FINAL REVIEW	11/07/2024
	90% SUBMISSION	10/17/2024

60% SUBMISSION / DDP2 09/10/2024). ISSUE / REVISION

SHEET NUMBER

GENERAL NOTES

1704.3 STATEMENT OF SPECIAL INSPECTIONS

THE CONTRACTOR OR BUILDING OWNER SHALL RETAIN AN APPROVED THIRD PARTY AGENCY TO PERFORM SPECIAL INSPECTIONS. SPECIAL INSPECTIONS AND REPORTING SHALL CONFORM TO CHAPTER 17 OF THE 2021 INTERNATIONAL BUILDING CODE.

1704.2.5 SPECIAL INSPECTION OF FABRICATED ITEMS. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION, EXCEPT WHERE THE FABRICATOR HAS BEEN APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.2.5.1.

1705.2.1 STRUCTURAL STEEL. SPECIAL INSPECTIONS AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. WELDING INSPECTION AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AWS CODE. THE FOLLOWING INSPECTIONS AND TESTS SHALL BE PERFORMED AT A MINIMUM:

- VISUALLY INSPECT ALL FILLET WELDS, BOLTED CONNECTIONS AND SHEAR STUDS.
- THE AGENCY SHALL MONITOR THE INSTALLATION OF BOLTS REQUIRING PRE-TENSIONING FOR CONFORMANCE WITH SPECIFIC PRE-CALIBRATED TIGHTENING PROCEDURES.
- EACH FULL PENETRATION BUTT OR GROOVE WELD AND FIFTY PERCENT OF PARTIAL PENETRATION WELDS SHALL BE TESTED BY THE ULTRASONIC METHOD. 10% OF ALL FIELD FILLET WELDS IN PRIMARY CONNECTIONS AND MULTI-PASS WELDS SHALL BE TESTED BY THE MAGNETIC PARTICLE METHOD.
- TEST ANY WELD WHICH VISUAL EXAMINATION INDICATES AN UNUSUAL CONDITION AND/OR POOR QUALITY.

WELDING INSPECTION AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AWS CODE.

1705.2.2 COLD-FORMED STEEL DECK. SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.

1705.2.3 OPEN-WEB STEEL JOISTS AND JOIST GIRDERS. SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH TABLE 1705.2.3.

TABLE 1705.2.3 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TVDE	FREQUENCY OF	INSPECTION		
TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD	
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.				
a. END CONNECTIONS - WELDING OR BOLTED.	-	Х	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	
b. BRIDGING - HORIZONTAL OR DIAGONAL.	-	-	-	
1. STANDARD BRIDGING.	-	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	
2. BRIDGING THAT DIFFERS FROM SJI SPEC SECTION 2207.1.	-	X	-	

1705.3 CONCRETE CONSTRUCTION. SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION AND TABLE 1705.3.

1705.3.1 WELDING OF REINFORCING BARS. SPECIAL INSPECTIONS OF WELDING AND QUALIFICATIONS OF SPECIAL INSPECTORS FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR SPECIAL INSPECTION AND OF AWS D1.4 FOR SPECIAL INSPECTOR QUALIFICATIONS.

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

		FREQUENCY O	F INSPECTION	REFERENCE	CRITERIA
	TYPE	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS IF APPLICABLE, AND VERIFY PLACEMENT.	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. a. b. c.	REINFORCING BAR WELDING, AS APPLICABLE: VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND INSPECT ALL OTHER WELDS.	- - X	X X -	AWS D1.4 ACI 318:26.6.4	-
3.	INSPECT ANCHORS CAST IN CONCRETE.	-	Х	ACI 318: 17.8.2	-
4. a. b.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	X -	- X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
5.	VERIFY USE OF REQUIRED DESIGN MIX.	-	Х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908 1908.3
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х	-	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	1908.10
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT, AS APPLICABLE, FOR PROPER APPLICATION TECHNIQUES.	Х	-	ACI 318: 26.5	1908.6, 1908.7, 1908
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	Х	ACI 318: 26.5.3-26.5.5	1908.9
9. a. b.	INSPECT PRESTRESSED CONCRETE, AS APPLICABLE, FOR: APPLICATION OF PRESTRESSING FORCES; AND GROUTING OF BONDED PRESTRESSING TENDONS.	X X	- -	ACI 318: 26.10	-
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS, AS APPLICABLE.	-	X	ACI 318: CH. 26.9	-
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS, AS APPLICABLE.	-	X	ACI 318: 26.11.2	-
12.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	Х	ACI 318: 26.11.1.2(b)	-

SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172. MOLD TEST CYLINDERS IN ACCORDANCE WITH ASTM C31.

THE FOLLOWING NUMBER OF TEST CYLINDERS SHALL BE CAST FOR EACH DAY'S POUR OR EACH 50 CUBIC YARDS, WHICHEVER RESULTS IN MORE TEST CYLINDERS. a. FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE:

LAB CURED 2@7 DAYS, 2@28 DAYS

b. FOR WALLS AND COLUMNS: LAB CURED 2@7 DAYS, 2@28 DAYS

FIELD CURED 2@7 DAYS, 2@28 DAYS c. THE AGENCY WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE AT THE CONTRACTOR'S EXPENSE WHEN THE TEST RESULTS INDICATE SPECIFIED CONCRETE

STRENGTHS HAVE NOT BEEN ATTAINED, AS DIRECTED BY THE STRUCTURAL ENGINEER.

1705.6 SOILS. SPECIAL INSPECTIONS AND TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION AND TABLE 1705.6. THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS SHALL BE USED TO DETERMINE COMPLIANCE. DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT PROPER MATERIALS AND PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TVDE	FREQUENCY O	F INSPECTION
TYPE	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	Х
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	Х
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	Χ
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	Х

1705.12 SPECIAL INSPECTIONS FOR WIND RESISTANCE. SPECIAL INSPECTIONS FOR WIND RESISTANCE SPECIFIED IN SECTIONS 1705.12.1 THROUGH 1705.12.3, UNLESS EXEMPTED BY THE EXCEPTIONS

TO SECTION 1704.2, ARE REQUIRED IN EXPOSURE CATEGORY B WHERE V IS 150 MPH OR GREATER AND EXPOSURE CATEGORY C OR D WHERE V IS 140 MPH OR GREATER.

1705.12.3 WIND-RESISTING COMPONENTS. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FASTENING OF THE FOLLOWING SYSTEMS AND COMPONENTS: 1. ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS. 2. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.

ABBREVIATION	WORD OR PHRASE	ABBREVIATIONS	5 - CONTINUED
٨٣	ADOVE FINISH FLOOR	IT	IONT
AFF ASD	ABOVE FINISH FLOOR ALLOWABLE STRESS DESIGN	JT JB	JOINT JOIST BEARING
		JD	JUIST DEARING
ALT	ALTERNATE	1/	IVID (4000 DOLINDS)
ACI	AMERICAN CONCRETE INSTITUTE	K	KIP (1000 POUNDS)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	KSF	KIPS PER SQUARE FOOT
AISI	AMERICAN IRON AND STEEL INSTITUTE	KSI	KIPS PER SQUARE INCH
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	LVL	LAMINATED VENEER LUMBER
AWS	AMERICAN WELDING SOCIETY	LE	LEFT END
AB	ANCHOR BOLT	LW	LIGHTWEIGHT
ARCH	ARCHITECT	LRFD	LOAD & RESISTANCE FACTOR DESIGN
@	AT RATE OF	LLH	LONG LEG HORIZONTAL
· ·		LLV	LONG LEG VERTICAL
BP	BASE PLATE	LP	LOW POINT
BM	BEAM	LSH	LONG SIDE HORIZONTAL
BB	BEAM BEARING	LSV	LONG SIDE VERTICAL
BRG	BEARING	LJV	LONG SIDE VENTICAL
		MED	MANUEACTURER
BLK	BLOCKING	MFR	MANUFACTURER
B OR BOT	BOTTOM	MATL	MATERIAL
BOD	BOTTOM OF DECK	MAX	MAXIMUM
BLDG	BUILDING	MECH	MECHANICAL
		MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
CANT	CANTILEVER	MTL	METAL
CIP	CAST-IN-PLACE	MIN	MINIMUM
CG	CENTER OF GRAVITY		
CL	CENTERLINE	NDS	NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
CLR	CLEAR	(N)	NEW
CFMF	COLD FORMED METAL FRAMING	NIC	NOT IN CONTRACT
COL	COLUMN	NW	NORMAL WEIGHT
CJP	COMPLETE JOINT PENETRATION WELD	N	NORTH
		NTS	NOT TO SCALE
CONC	CONCRETE		
CMU	CONCRETE MASONRY UNIT	NO OR #	NUMBER
CRSI	CONCRETE REINFORCING STEEL INSTITUTE		011 6511550
CONN	CONNECTION	OC	ON CENTER
CONST	CONSTRUCTION	OPNG	OPENING
CJ	CONSTRUCTION/CONTROL JOINT		
CONT	CONTINUOUS	PSL	PARALLEL STRAND LUMBER
		PCI	PRECAST CONCRETE INSTITUTE
DEPR	DEPRESSION	PL	PLATE
DTL	DETAIL	PT	POST-TENSIONED OR PRESSURE TREATED
DIA	DIAMETER	LB OR #	POUND
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DWLS	DOWELS	PSI	POUNDS PER SQUARE INCH
DN	DOWN	P/C	PRECAST
DWG	DRAWING	176	TREGRET
DIVO	DIAMINO	REF	REFERENCE
Γ Λ	FACIL	REINF	REINFORCE OR REINFORCEMENT
EA	EACH FAIR		
EE	EACH END	R	REMAINDER
EF	EACH FACE	RE	RIGHT END
ES	EACH SIDE		
EW	EACH WAY	SECT	SECTION
Е	EAST	SC	SLIP CRITICAL BOLT
EL	ELEVATION	SHT	SHEET
EQ	EQUAL	SIM	SIMILAR
(E)	EXISTING	SOG	SLAB-ON-GRADE
EXP BOLT	EXPANSION BOLT	S	SOUTH
EJ	EXPANSION JOINT	SQ	SQUARE
EXT	EXTERIOR	SS	STAINLESS STEEL
_, .	<u> </u>	STD	STANDARD
FT	FEET	STL	STEEL
FIN FLR	FINISH FLOOR	SDI	STEEL DECK INSTITUTE
FLR	FLOOR	STIFF	STIFFENER
FTG	FOUNDATION	STRUCT	STRUCTURAL
FDN	FOUNDATION		
		TSF	TONS PER SQUARE FOOT
GALV	GALVANIZED	Т	TOP
GA	GAGE	T&B	TOP & BOTTOM
GR	GRADE	TOC	TOP OF CONCRETE
GB	GRADE BEAM	TOD	TOP OF DECK
		TOS	TOP OF STEEL OR SLAB
HP	HIGH POINT	TOW	TOP OF WALL
HS	HIGH STRENGTH	TYP	TYPICAL
HSS	HOLLOW STRUCTURAL SECTION		
H OR HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
II ON HOME	HOMEONIAL	0110	SILESS HOTER OTHERWISE
IN OD IN	INCH	VIE	VEDIEV IN FIELD

INFO

INFORMATION

INTERNATIONAL BUILDING CODE

VERIFY IN FIELD

WORKING POINT

WELDED WIRE REINFORCEMENT

VERTICAL

WEST

WITH

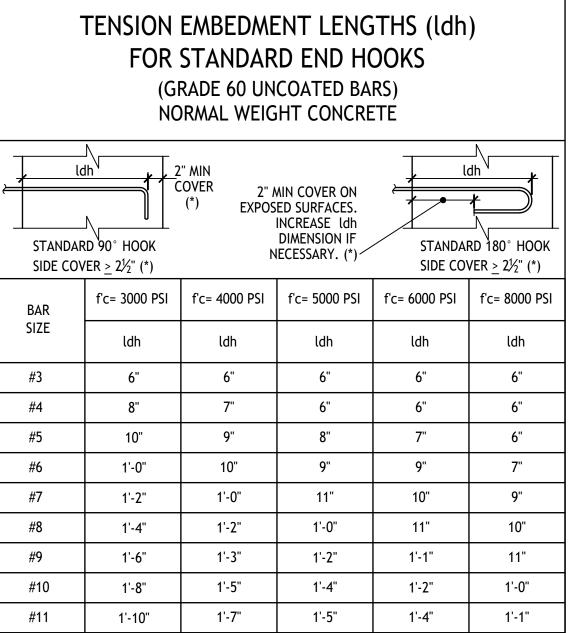
V OR VERT

TENSION LAP SPLICES - CLASS B - TOP & BOTTOM BARS (GRADE 60 UNCOATED BARS) NORMAL WEIGHT CONCRETE

BAR	f'c= 30	000 PSI	f'c= 40	000 PSI	f'c= 4!	500 PSI	f'c= 50	000 PSI	f'c= 60	000 PSI	f'c= 80	000 PSI
SIZE	ТОР	ВОТТ										
#3	2'-4"	1'-9"	2'-0"	1'-6"	1'-11"	1'-6"	1'-10"	1'-5"	1'-8"	1'-4"	1'-5"	1'-4"
#4	3'-1"	2'-4"	2'-8"	2'-1"	2'-7"	2'-0"	2'-5"	1'-10"	2'-2"	1'-8"	1'-11"	1'-5"
#5	3'-10"	3'-0"	3'-4"	2'-7"	3'-2"	2'-5"	3'-0"	2'-4"	2'-9"	2'-1"	2'-4"	1'-10"
#6	4'-8"	3'-7"	4'-0"	3'-1"	3'-10"	2'-11"	3'-7"	2'-9"	3'-3"	2'-6"	2'-10"	2'-2"
#7	6'-9"	5'-2"	5'-10"	4'-6"	5'-6"	4'-3"	5'-3"	4'-0"	4'-9"	3'-8"	4'-2"	3'-2"
#8	7'-9"	5'-11"	6'-8"	5'-2"	6'-4"	4'-10"	6'-0"	4'-7"	5'-5"	4'-2"	4'-9"	3'-8"
#9	8'-8"	6'-8"	7'-6"	5'-9"	7'-2"	5'-6"	6'-9"	5'-2"	6'-2"	4'-9"	5'-4"	4'-1"
#10	9'-10"	7'-6"	8'-6"	6'-6"	8'-0"	6'-2"	7'-7"	5'-10"	6'-11"	5'-4"	6'-0"	4'-7"
#11	10'-11"	8'-4"	9'-5"	7'-3"	8'-11"	6'-10"	8'-5"	6'-6"	7'-8"	5'-11"	6'-8"	5'-1"

- 1. TABULATED VALUES ARE APPLICABLE ONLY IF CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS NOT LESS THAN 'db', CLEAR COVER IS NOT LESS THAN db, AND STIRRUPS OR TIES THROUGHOUT 'ld' IS NOT LESS THAN CODE MINIMUM, OR CLEAR SPACING OF BARS
- BEING DEVELOPED OR SPLICED IS NOT LESS THAN 2*'db' AND CLEAR COVER IS NOT LESS THAN 'db'. FOR OTHER CASES, MULTIPLY TABULATED VALUES BY 1.5.
- 2. 'TOP' BARS ARE HORIZONTAL REBARS WITH MORE THAN 12 IN. OF FRESH CONCRETE CAST BELOW THE BARS AT THE DEVELOPMENT LENGTH.
- 3. FOR LIGHT WEIGHT CONCRETE MULTIPLY THE TABULATED VALUES BY 1.3. 4. FOR EPOXY COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.5 FOR BOTT BARS, OR BY 1.3 FOR TOP BARS.
- 5. FOR REINFORCEMENT OTHER THAN GRADE 60, MODIFY THE TABULATED VALUES BY THE RATIO OF THE REINFORCEMENT YIELD STRENGTH DIVIDED BY 60 KSI.
- 6. FOR CLASS 'A' SPLICE USE SAME AS TENSION DEVELOPMENT LENGTH.





(*) WHEN EITHER SIDE OR END COVER IS SMALLER THAN THESE NUMBERS, MULTIPLY 'ldh' BY 1.4.



TENSION EMBEDMENT LENGTH SCHEDULE

TENSION DEVELOPMENT LENGTHS (ld) (GRADE 60 UNCOATED BARS) NORMAL WEIGHT CONCRETE

BAR	f'c= 3000 PSI f'c= 4000 PSI		000 PSI	f'c= 4500 PSI		f'c= 5000 PSI		f'c= 6000 PSI		f'c= 8000 PSI		
SIZE	ldTOP	ld BOTT	ldTOP	ld BOTT	ldTOP	ld BOTT	ldTOP	ld BOTT	ldTOP	ld BOTT	ldTOP	ld BOTT
#3	1'-9"	1'-4"	1'-6"	1'-2"	1'-6"	1'-2"	1'-5"	1'-1"	1'-3"	1'-0"	1'-1"	1'-0"
#4	2'-4"	1'-10"	2'-1"	1'-7"	2'-0"	1'-6"	1'-10"	1'-5"	1'-8"	1'-3"	1'-5"	1'-1"
#5	3'-0"	2'-3"	2'-7"	2'-0"	2'-7"	1'-11"	2'-4"	1'-9"	2'-1"	1'-7"	1'-10"	1'-5"
#6	3'-7"	2'-9"	3'-1"	2'-4"	2'-11"	2'-3"	2'-9"	2'-1"	2'-6"	1'-11"	2'-2"	1'-8"
#7	5'-2"	4'-0"	4'-6"	3'-6"	4'-3"	3'-4"	4'-0"	3'-1"	3'-8"	2'-10"	3'-2"	2'-5"
#8	5'-11"	4'-7"	5'-2"	3'-11"	4'-11"	3'-9"	4'-7"	3'-6"	4'-2"	3'-3"	3'-8"	2'-10"
#9	6'-8"	5'-2"	5'-9"	4'-5"	5'-6"	4'-3"	5'-2"	4'-0"	4'-9"	3'-8"	4'-1"	3'-2"
#10	7'-6"	5'-10"	6'-6"	5'-0"	6'-2"	4'-8"	5'-10"	4'-6"	5'-4"	4'-1"	4'-7"	3'-7"
#11	8'-4"	6'-5"	7'-3"	5'-7"	6'-10"	5'-4"	6'-6"	5'-0"	5'-11"	4'-7"	5'-1"	3'-11"

NOTES:

- 1. TABULATED VALUES ARE APPLICABLE ONLY IF CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS NOT LESS THAN "db", CLEAR COVER IS NOT LESS THAN "db", AND AMOUNT OF STIRRUPS OR TIES THROUGHOUT "ld" IS NOT LESS THAN CODE MINIMUM, OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS NOT LESS THAN 2*"db" AND CLEAR COVER IS NOT LESS THAN "db".
- FOR OTHER CASES, MULTIPLY TABULATED VALUES BY 1.5. 2. "TOP" BARS ARE HORIZONTAL REINFORCING BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BARS AT THE DEVELOPMENT LENGTH.
- 3. FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.
- 4. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.5 FOR BOTTOM BARS OR BY 1.3 FOR TOP BARS. 5. FOR REINFORCEMENT OTHER THAN GRADE 60, MODIFY THE TABULATED VALUES BY THE RATIO OF THE REINFORCEMENT YIELD
- STRENGTH DIVIDED BY 60 KSI.

TENSION DEVELOPMENT LENGTH SCHEDULE

PENNEY DESIGN GROUP

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384 www.penneydesigngroup.com

Consultants, PC 8115 Maple Lawn Blvd, Fulton, MD 20759

TEC 410-921-7678 www.tarantinoec.com

BLVD 2824 CONSTRUCTION S CADILLAC

Massey Cadillac South

ORLANDO, FL 32824

2698 J LAWSON BLVD

No. 88354 Brian Farantino Tarantino Date: 2025.01.16

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED

STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

license number: PE88785 expiration date: 02/28/2025

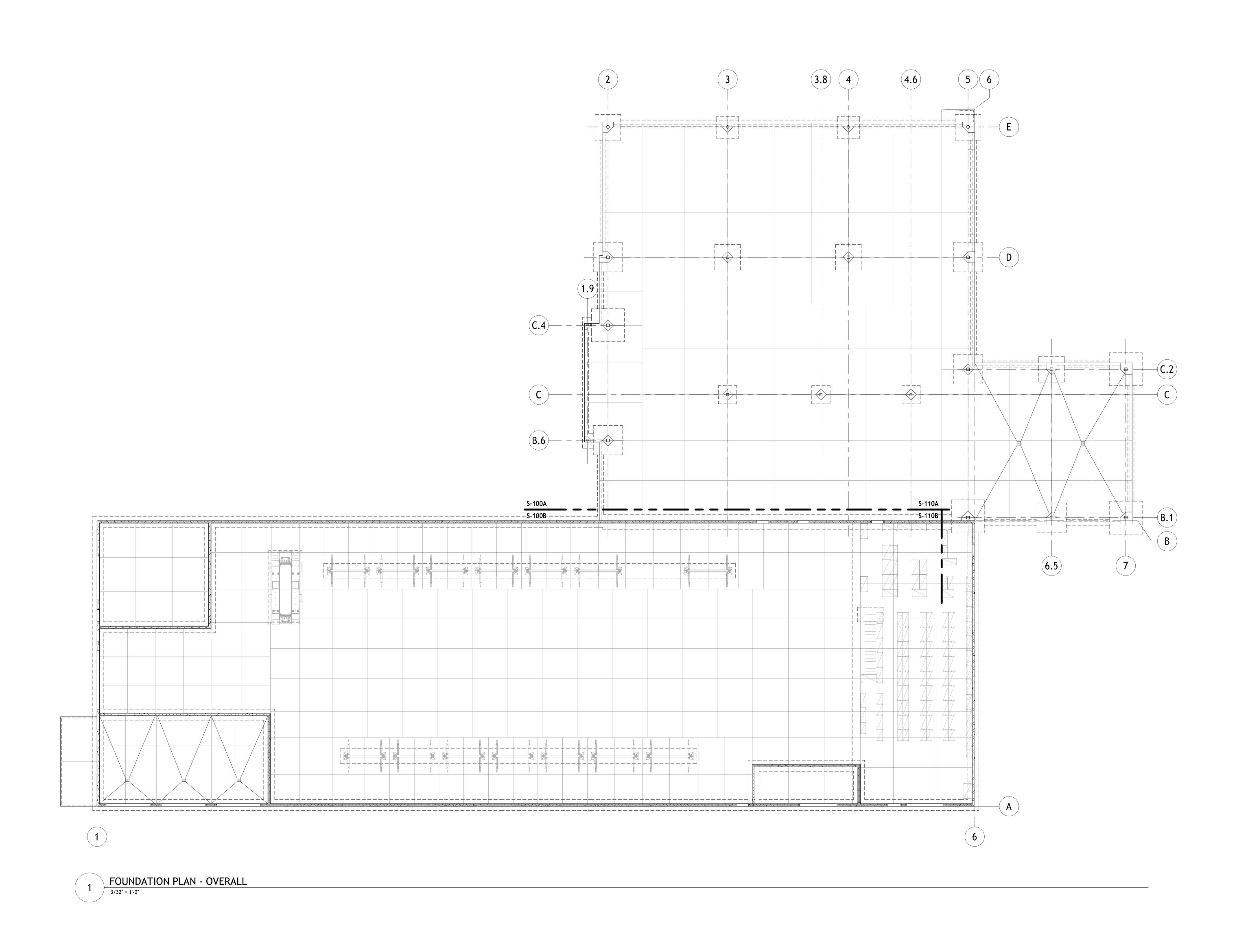
PERMIT SET	12/11/2024
SONIC PRICING SET	12/10/2024
SONIC FINAL REVIEW	11/07/2024
90% SUBMISSION	10/17/2024
60% SUBMISSION / DDP2	09/10/2024
ISSUE / REVISION	DATE
· · · · · · · · · · · · · · · · · · ·	

DRAWN BY: ZK/KT CHECKED BY: RHH/BTS PLOT DATE: 12/10/2024

SHEET NUMBER

GENERAL NOTES

PROJECT NUMBER:



DESIGN ARCHITECTURE | PLANNING | INTERIORS

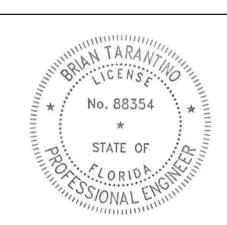
8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384

www.penneydesigngroup.com

Tarantino Engineering
Consultants, PC
8115 Maple Lawn Blvd,
Suite 350
Fulton, MD 20759
410-921-7678
www.tarantinoec.com

Massey Cadillac South

2698 J LAWSON BLVD ORLANDO, FL 32824



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

license number: PE88785 expiration date: 02/28/2025

PERMIT SET SONIC PRICING SET SONIC FINAL REVIEW

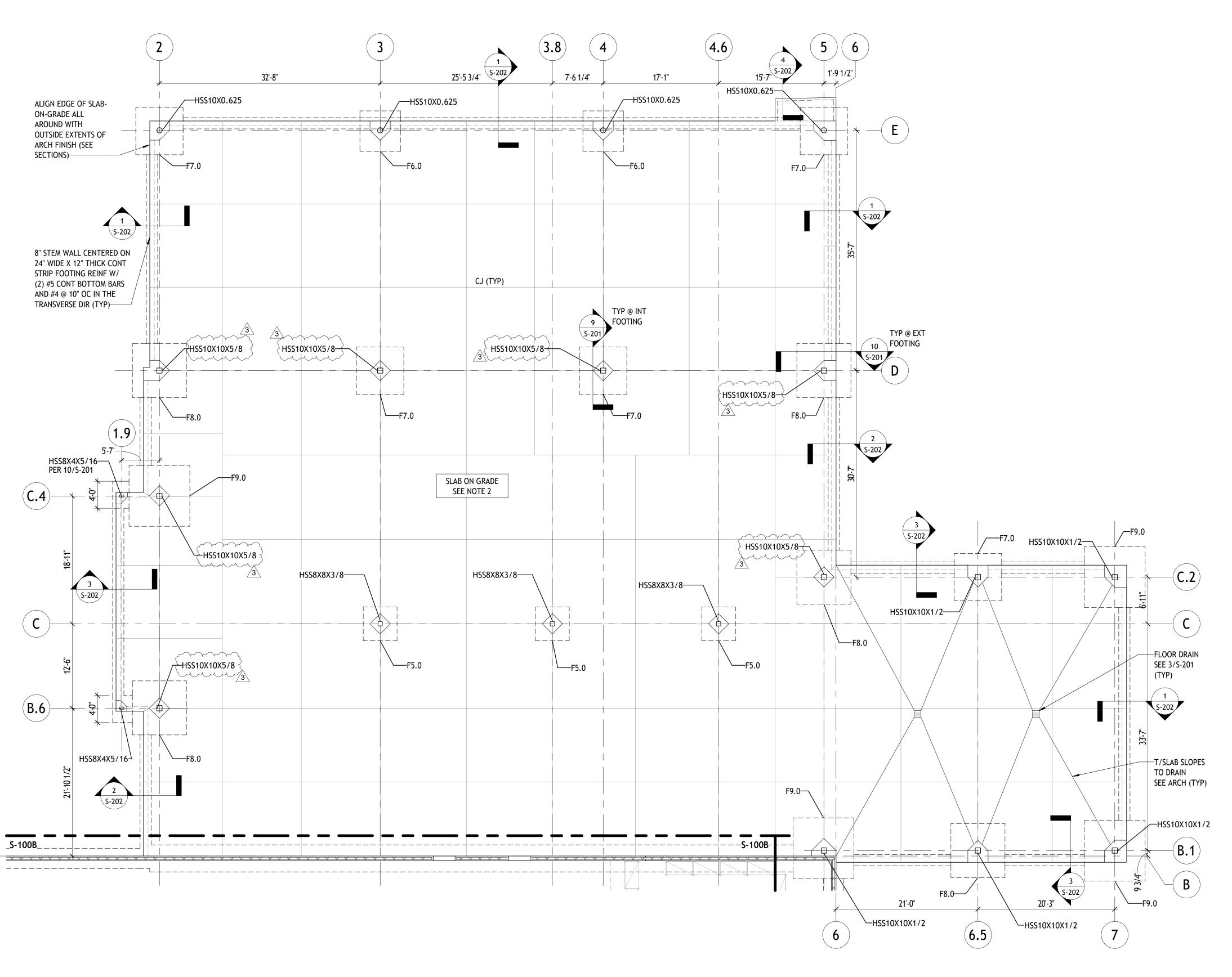
09/10/2024 60% SUBMISSION / DDP2 SCALE & NORTH ARROW CHECKED BY: PLOT DATE:

12/10/2024 2:25:06 PM

FOUNDATION

PLAN - OVERALL SCALE: 3/32" = 1'-0"

SCALE: 3/32" = 1'-0"



A FOUNDATION PLAN - SECTOR A

<u>PLAN NOTES</u>

1. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN.

REINFORCEMENT POURED OVER 10 MIL VAPOR BARRIER OVER COMPACTED SOIL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

3. TYPICAL ELEVATIONS:

• REFERENCE ELEVATION MEASURED FROM GROUND FLOOR DATUM = (0'-0"), ACTUAL ELEVATION = 84.5' (NAVD). TOP OF SLAB ELEVATION = (0'-0"), REFERENCED FROM DATUM • TOP OF FOOTING ELEVATION = (-1'-0"), TYP UNO. TOP OF FOOTING ELEVATIONS THAT DIFFER FROM TYPICAL

NOTED THUS: (XX'-XX"), REFERENCED FROM TOP OF SLAB ELEVATION 4. TYPICAL STEM WALL FOOTING SHALL BE 2'-0" WIDE X 1'-0" THICK REINFORCED WITH (3) #5 CONTINUOUS BOTTOM

BARS AND #4 BARS AT 24"OC IN THE TRANSVERSE DIRECTION (W2.0), UNLESS NOTED OTHERWISE. 5. STAIRS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR STAIR

FRAMING SIGNED AND SEALED BY A REGISTERED MARYLAND PROFESSIONAL ENGINEER.

6. NOTATIONS ON THE PLANS DESIGNATE THE FOLLOWING: CONCRETE PRECAST PANEL BY OTHERS

FOUNDATION SCHEDULE	

MARK	SIZE	THICKNESS	REINFORCING	
F5.0	5' - 0"x5' - 0"	1' - 4"	(8) #5 BOT EW	\mathcal{Y}
F6.0	6' - 0"x6' - 0"	1' - 4"	(8) #5 T&B EW	}
F7.0	7' - 0"x7' - 0"	1' - 4"	(8) #5 T&B EW	
F8.0	8' - 0"x8' - 0"	1 - 4	(9) #6 T&B EW	
F9.0	9' - 0"x9' - 0"	1' - 4"	(10) #6 T&B EW	

THE STRUCTURE HAS BEEN DESIGNED AND DETAILED BASED ON ASSUMED SHOP EQUIPMENT AS LAID OUT BY THE ARCHITECT AND LISTED BELOW:

HIGH-SPEED ROLL UP DOORS BY RYTEC MODEL # XXX

THE FINAL SELECTION OF SHOP EQUIPMENT SHALL BE MADE AND THE LAYOUT APPROVED BY THE OWNER PRIOR TO ANY STRUCTURAL SUBMITTALS BEING SUBMITTED FOR REVIEW AND APPROVAL BY THE EOR OR ANY FABRICATION OR INSTALLATION OF ANY STRUCTURAL ELEMENTS. IN THE ABSENCE OF THIS PROCEDURE, ALL CHANGES TO DRAWINGS PLANS AND DETAILS WILL BE MADE AT THE OWNER'S EXPENSE AND WILL NOT BE PART OF THE ORIGINAL DESIGN CONTRACT BY THE ENGINEER OF RECORD.

PENNEY DESIGN

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384 www.penneydesigngroup.com

Tarantino Engineering
Consultants, PC
8115 Maple Lawn Blvd,
Suite 350
Fulton, MD 20759
410-921-7678
www.tarantinoec.com

Massey Cadillac South

2698 J LAWSON BLVD ORLANDO, FL 32824

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED

STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA. license number: PE88785 expiration date: 02/28/2025

3	PERMIT REVISION 3	04/11/
	PERMIT SET	12/11/
	SONIC PRICING SET	12/10/
	SONIC FINAL REVIEW	11/07/
	00% CLIDMICCIONI	10/17/

60% SUBMISSION / DDP2 09/10/2024 DRAWN BY:

SCALE & NORTH ARROW CHECKED BY: PLOT DATE: 4/11/2025 5:07:21 PM

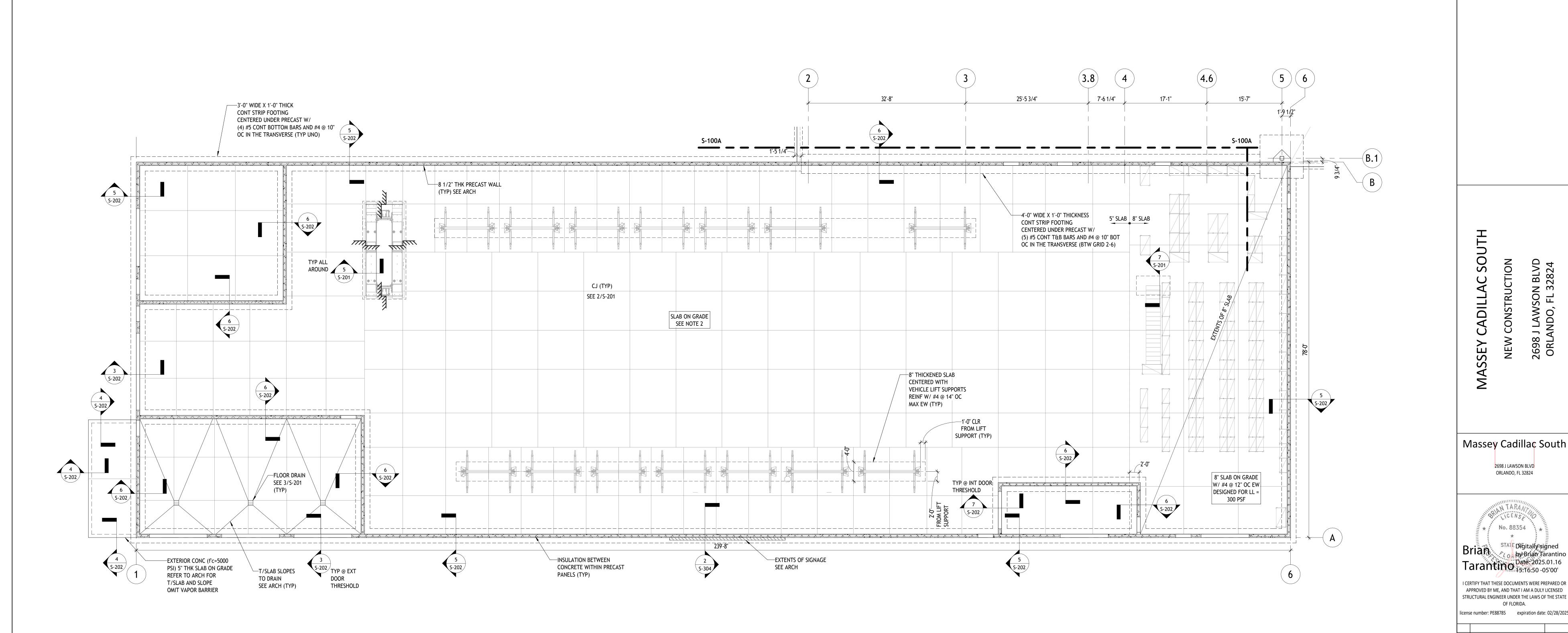
SHEET NUMBER

PLAN - SECTOR SCALE: 1/8" = 1'-0"

PROJECT NUMBER:

1/8" = 1'-0"

FOUNDATION



ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384

www.penneydesigngroup.com

TEC 410-921-7678 www.tarantinoec.com

Massey Cadillac South

2698 J LAWSON BLVD ORLANDO, FL 32824



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

SONIC PRICING SET

SONIC FINAL REVIEW 60% SUBMISSION / DDP2 09/10/2024 DRAWN BY:

12/10/2024 2:25:08 PM SHEET NUMBER

FOUNDATION

PLAN - SECTOR

1/8" = 1'-0"

PROJECT NUMBER:

SCALE: 1/8" = 1'-0"

SCALE & NORTH ARROW

FOUNDATION SCHEDULE

F7.0 7' - 0"x7' - 0" 1' - 2" (8) #5 T&B EW

F8.0 8' - 0"x8' - 0" 1' - 4" (9) #6 T&B EW

F9.0 9' - 0"x9' - 0" 1' - 4" (10) #6 T&B EW

THICKNESS REINFORCING VEHICLE LIFTS BY ROTARY MODEL # SP012 F5.0 5' - 0"x5' - 0" 1' - 0" (6) #5 BOT EW HIGH-SPEED ROLL UP DOORS BY RYTEC MODEL # XXX SCISSOR LIFT RACK MODEL # RX12KFIS F6.0 6' - 0"x6' - 0" 1' - 0" (7) #5 T&B EW

> THE FINAL SELECTION OF SHOP EQUIPMENT SHALL BE MADE AND THE LAYOUT APPROVED BY THE OWNER PRIOR TO ANY STRUCTURAL SUBMITTALS BEING SUBMITTED FOR REVIEW AND APPROVAL BY THE EOR OR ANY FABRICATION OR INSTALLATION OF ANY STRUCTURAL ELEMENTS. IN THE ABSENCE OF THIS PROCEDURE, ALL CHANGES TO DRAWINGS PLANS AND DETAILS WILL BE MADE AT THE OWNER'S EXPENSE AND WILL NOT BE PART OF THE ORIGINAL DESIGN CONTRACT BY THE ENGINEER OF RECORD.

THE STRUCTURE HAS BEEN DESIGNED AND DETAILED BASED ON ASSUMED SHOP

EQUIPMENT AS LAID OUT BY THE ARCHITECT AND LISTED BELOW:

B FOUNDATION PLAN - SECTOR B

PLAN NOTES

1. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION NOT SHOWN. REINFORCEMENT POURED OVER 10 MIL VAPOR BARRIER OVER COMPACTED SOIL IN ACCORDANCE WITH THE

GEOTECHNICAL REPORT. 3. TYPICAL ELEVATIONS:

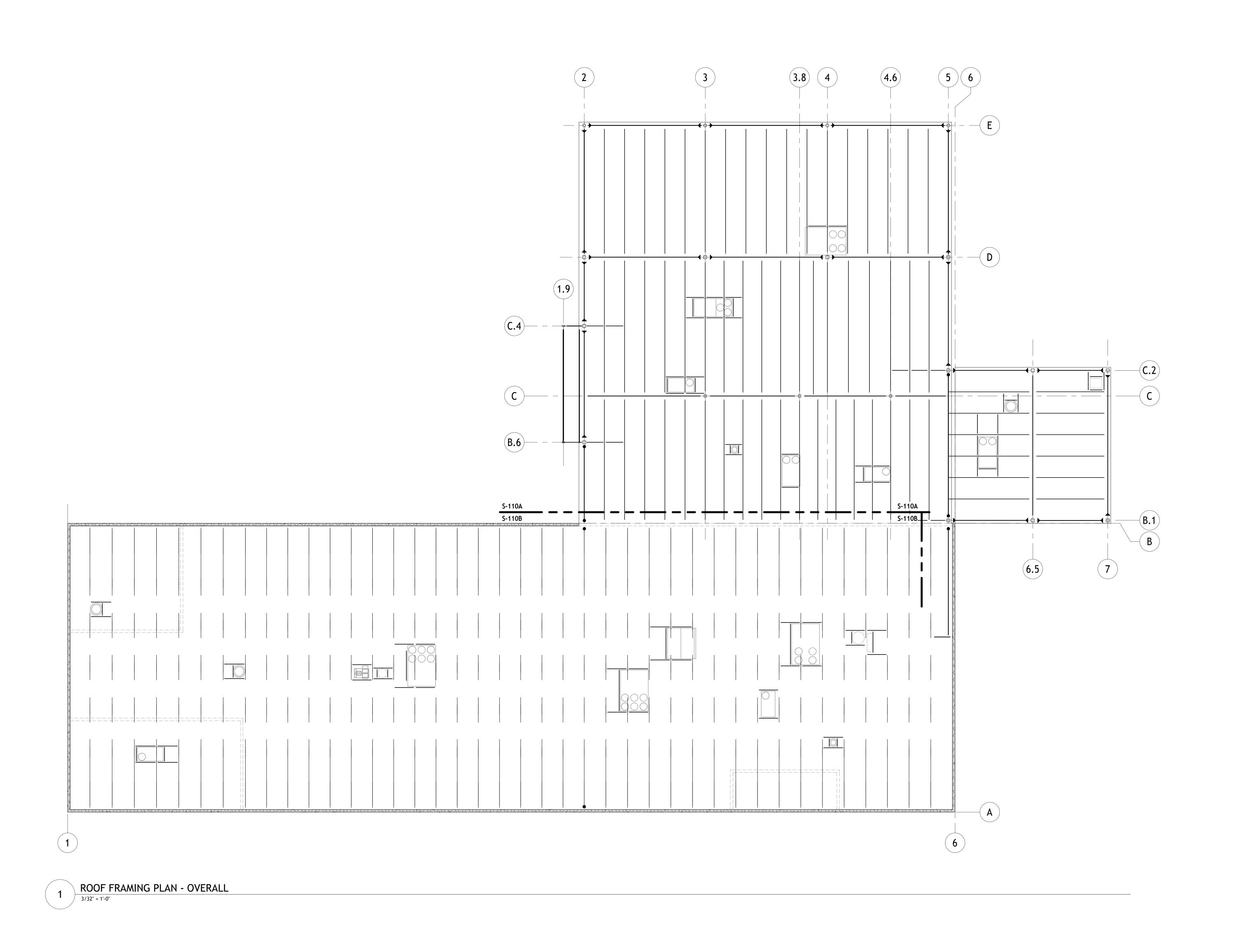
• REFERENCE ELEVATION MEASURED FROM GROUND FLOOR DATUM = (0'-0"), ACTUAL ELEVATION = 84.5' (NAVD). TOP OF SLAB ELEVATION = (0'-0"), REFERENCED FROM DATUM • TOP OF FOOTING ELEVATION = (-1'-0"), TYP UNO. TOP OF FOOTING ELEVATIONS THAT DIFFER FROM TYPICAL

NOTED THUS: (XX'-XX"), REFERENCED FROM TOP OF SLAB ELEVATION

4. TYPICAL STEM WALL FOOTING SHALL BE 2'-0" WIDE X 1'-0" THICK REINFORCED WITH (3) #5 CONTINUOUS BOTTOM BARS AND #4 BARS AT 24"OC IN THE TRANSVERSE DIRECTION (W2.0), UNLESS NOTED OTHERWISE.

5. STAIRS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR STAIR FRAMING SIGNED AND SEALED BY A REGISTERED MARYLAND PROFESSIONAL ENGINEER.

6. NOTATIONS ON THE PLANS DESIGNATE THE FOLLOWING: CONCRETE PRECAST PANEL BY OTHERS



DESIGN

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384

www.penneydesigngroup.com Tarantino Engineering
Consultants, PC
8115 Maple Lawn Blvd,
Suite 350
Fulton, MD 20759
410-921-7678
www.tarantinoec.com

MASSEY CADILLAC SOL NEW CONSTRUCTION

Massey Cadillac South

2698 J LAWSON BLVD ORLANDO, FL 32824

2698 J LAWSON BLVD ORLANDO, FL 32824

No. 88354

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

license number: PE88785 expiration date: 02/28/2025

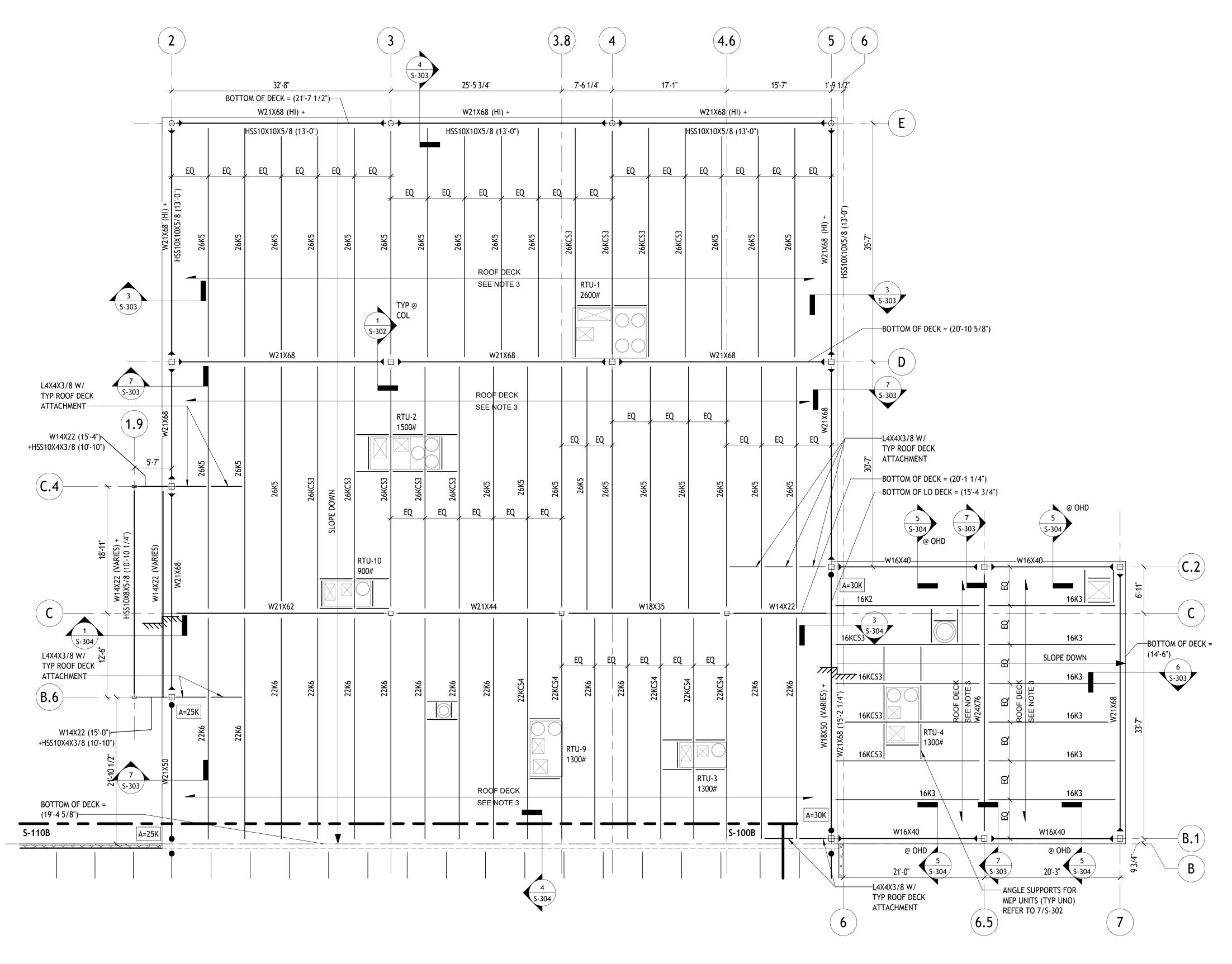
PERMIT SET 12/10/2024 SONIC PRICING SET 11/07/2024 SONIC FINAL REVIEW 09/10/2024 60% SUBMISSION / DDP2 NO. ISSUE / REVISION
DRAWN BY:

SCALE & NORTH ARROW CHECKED BY:
PLOT DATE: 12/10/2024 2:25:08 PM

ROOF FRAMING PLAN - OVERALL

SCALE: 3/32" = 1'-0"

SCALE: 3/32" = 1'-0"



A ROOF FRAMING PLAN - SECTOR A

1. REFERENCE ELEVATION MEASURED FROM TOP OF SLAB ON GRADE DATUM = (0'-0"). SEE S-100A/B FOR ACTUAL TOP OF SLAB ON GRADE ELEVATION.

2. ELEVATIONS ARE NOTED AS FOLLOWS, MEASURED FROM THE REFERENCE ELEVATION

(X'-X") INDICATES TOP OF STEEL/BOTTOM OF DECK. 3. STRUCTURAL ROOF SHALL CONSIST OF 1 1/2" X 20 GA, TYPE B GALVANIZED METAL DECK (2 SPAN MIN). SEE

TYPICAL DETAILS FOR DECK ATTACHMENT. 4. REFER TO ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB DIMENSIONS.

5. REINFORCE DECK AROUND PENETRATIONS PER DETAIL 7/S-302.

6. NOTATIONS ON THE PLANS DESIGNATE THE FOLLOWING: ► BEAM TO COLUMN OR GIRDER FULLY DEVELOPED MOMENT CONNECTION

BEAM TO COLUMN OR PRECAST AXIAL DRAG CONNECTION

A=XXX AXIAL DRAG DESIGN LOAD (ULTIMATE)

CONCRETE PRECAST PANEL BY OTHERS

XX KIPS (WIND) (GRIDS X-X) LATERAL LOAD IMPOSED AT ROOF (ULTIMATE) DESIGN

ARCHITECTURE | PLANNING | INTERIORS 8120 Woodmont Avenue

Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384 www.penneydesigngroup.com

Tarantino Engineering
Consultants, PC
8115 Maple Lawn Blvd,
Suite 350
Fulton, MD 20759
410-921-7678
www.tarantinoec.com

2698 J LAWSON BLVD ORLANDO, FL 32824 CADILLAC MASSEY

Massey Cadillac South

2698 J LAWSON BLVD ORLANDO, FL 32824

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE

OF FLORIDA. license number: PE88785 expiration date: 02/28/2025

PERMIT SET SONIC PRICING SET SONIC FINAL REVIEW

60% SUBMISSION / DDP2 09/10/2024 DRAWN BY: SCALE & NORTH ARROW

12/10/2024 3:56:18 PM

SHEET NUMBER

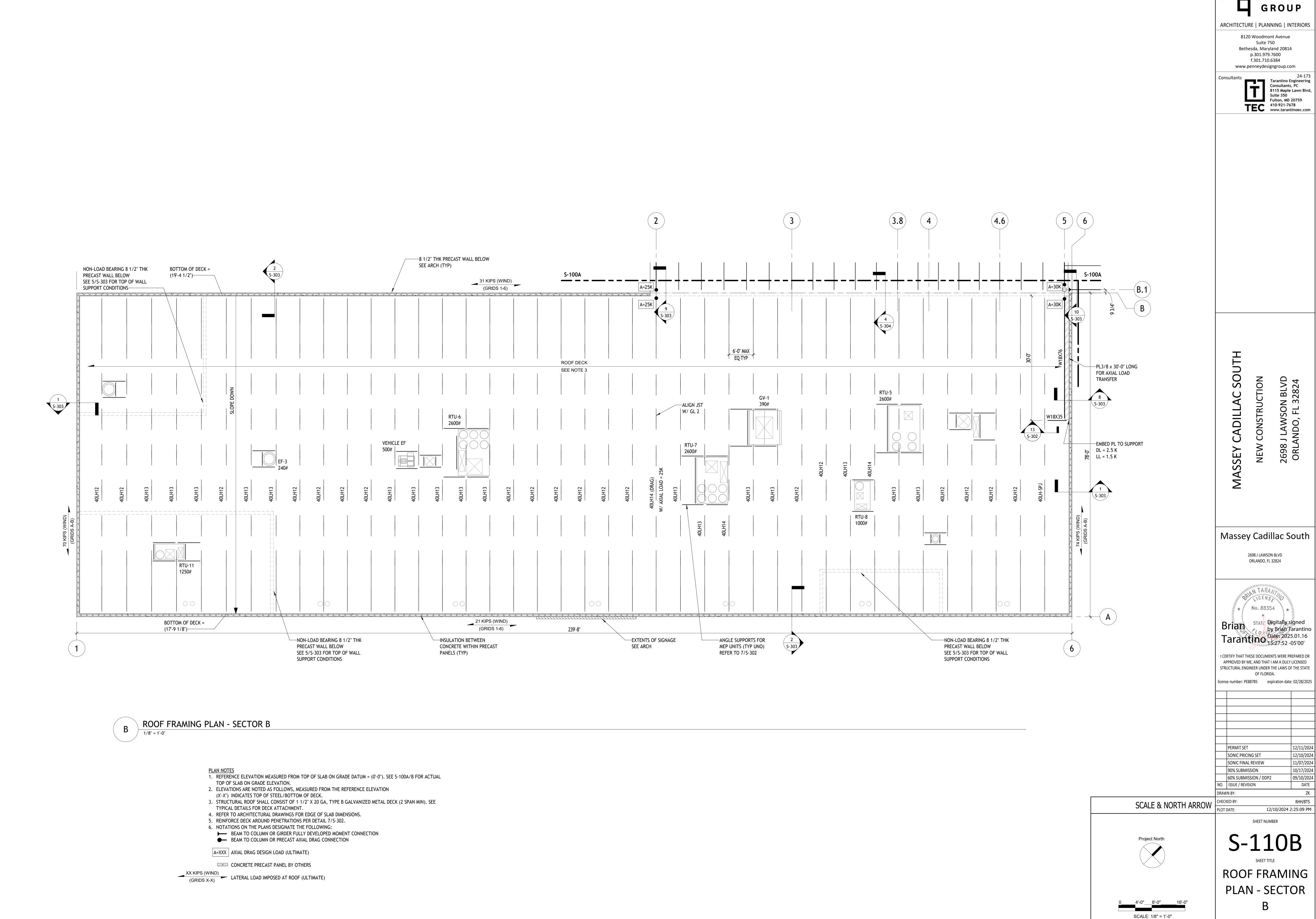
ROOF FRAMING

PLAN - SECTOR

1/8" = 1'-0"

PROJECT NUMBER: SON002a

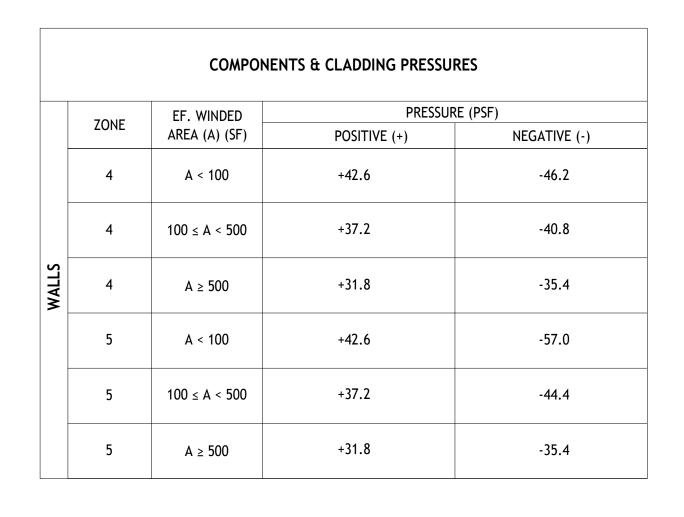
SCALE: 1/8" = 1'-0"



DESIGN

1/8" = 1'-0"

PROJECT NUMBER: SON002a

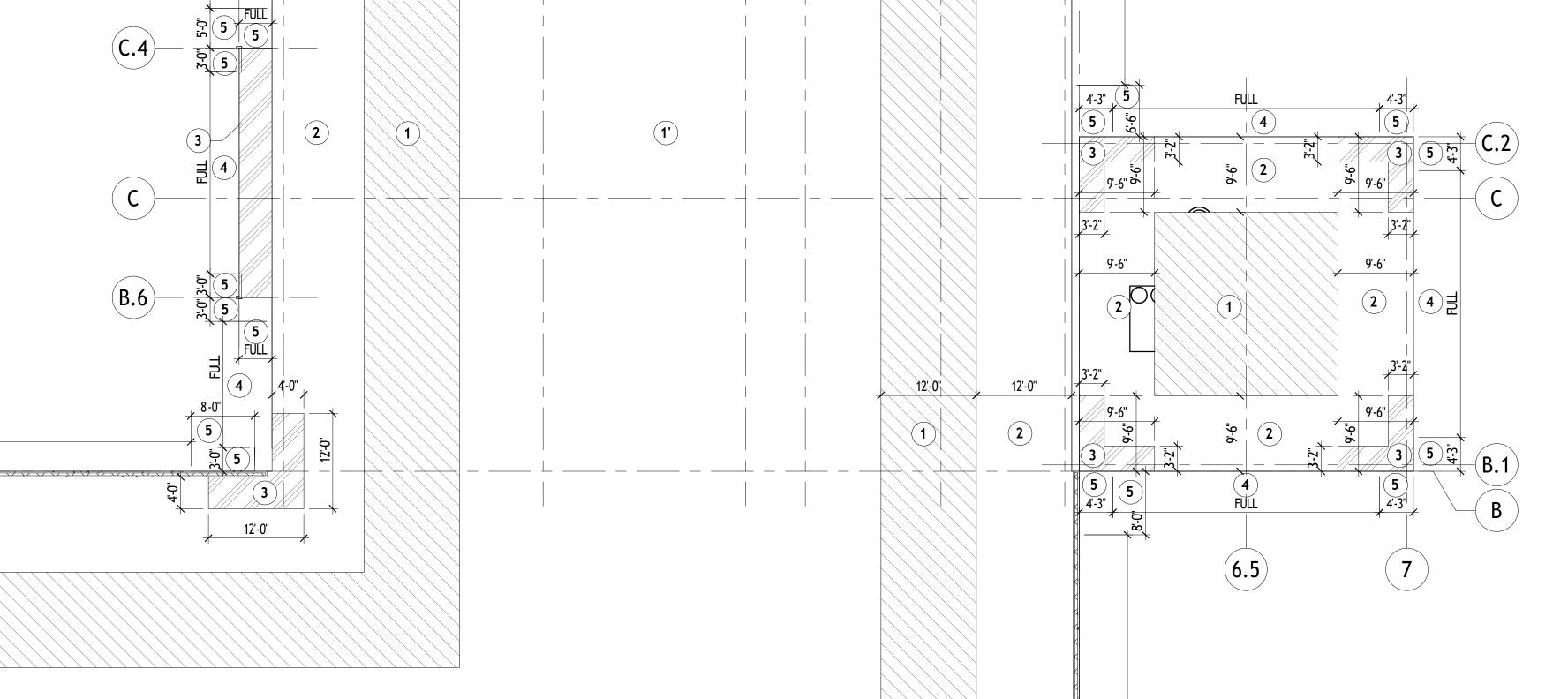


	NET UPLIFT				
ZONE	EF. WINDED AREA (SF)	PRESSURE (PSF) NEGATIVE (-)			
1'	A ≥ 100	-28.2			
1	A ≥ 100	-42.6			
2	A ≥ 100	-60.7			
3	A ≥ 10	-111.2			

		EF. WINDED	PRESSURE (PSF)	
ZOI	NE	AREA (A) (SF)	POSITIVE (+)	NEGATIVE (-)
1	1	A < 100	+17.3	-39.0
1	•	100 ≤ A < 500	+13.7	-39.0
1	•	A ≥ 500	+13.7	-20.9
1		A < 100	+17.3	-67.9
1		100 ≤ A < 500	+13.7	-53.4
1		A ≥ 500	+13.7	-42.6
2		A < 100	+17.3	-89.5
2		100 ≤ A < 500	+13.7	-71.5
2		A ≥ 500	+13.7	-57.0
3		A < 100	+17.3	-122.0
3		100 ≤ A < 500	+13.7	-84.1
3		A ≥ 500	+13.7	-57.0

BASED ON ULTIMATE WIND SPEED OF V = 138 MPH
 NET UPLIFT SHOWN BASED ON LRFD LOAD COMBINATION 2.3.2.6 (0.9D + 1.0W),

WHERE 'D' IS 12 PSF.



12'-0"

1 WIND C&C ROOF PLAN - OVERALL
3/32" = 1'-0"

12'-0"

2

12'-0"

Project North

Project North

R(

0 8'-0" 16'-0" 32'-0"

SCALE: 3/32" = 1'-0"

PENNEY
DESIGN
GROUP

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue
Suite 750

Bethesda, Maryland 20814

p.301.979.7600

f.301.710.6384

tants

24-173

Tarantino Engineering
Consultants, PC
8115 Maple Lawn Blvd,
Suite 350
Fulton, MD 20759
410-921-7678
www.tarantinoec.com

MASSEY CADILLAC SOUTH
NEW CONSTRUCTION

Massey Cadillac South

2698 J LAWSON BLVD ORLANDO, FL 32824

No. 88354

Digitally signed by Brian Taxantino

Tarantino Date: 2025.01.16

15:28:15-05'00'

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED

STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE
OF FLORIDA.
license number: PE88785 expiration date: 02/28/2025

PERMIT SET 12/11/2024

SONIC PRICING SET 12/10/2024

SONIC FINAL REVIEW 11/07/2024

90% SUBMISSION 10/17/2024

NO. ISSUE / REVISION DATE

DRAWN BY: ZK

 WN BY:
 ZK

 CKED BY:
 RHH/BTS

 T DATE:
 12/10/2024 2:25:10 PM

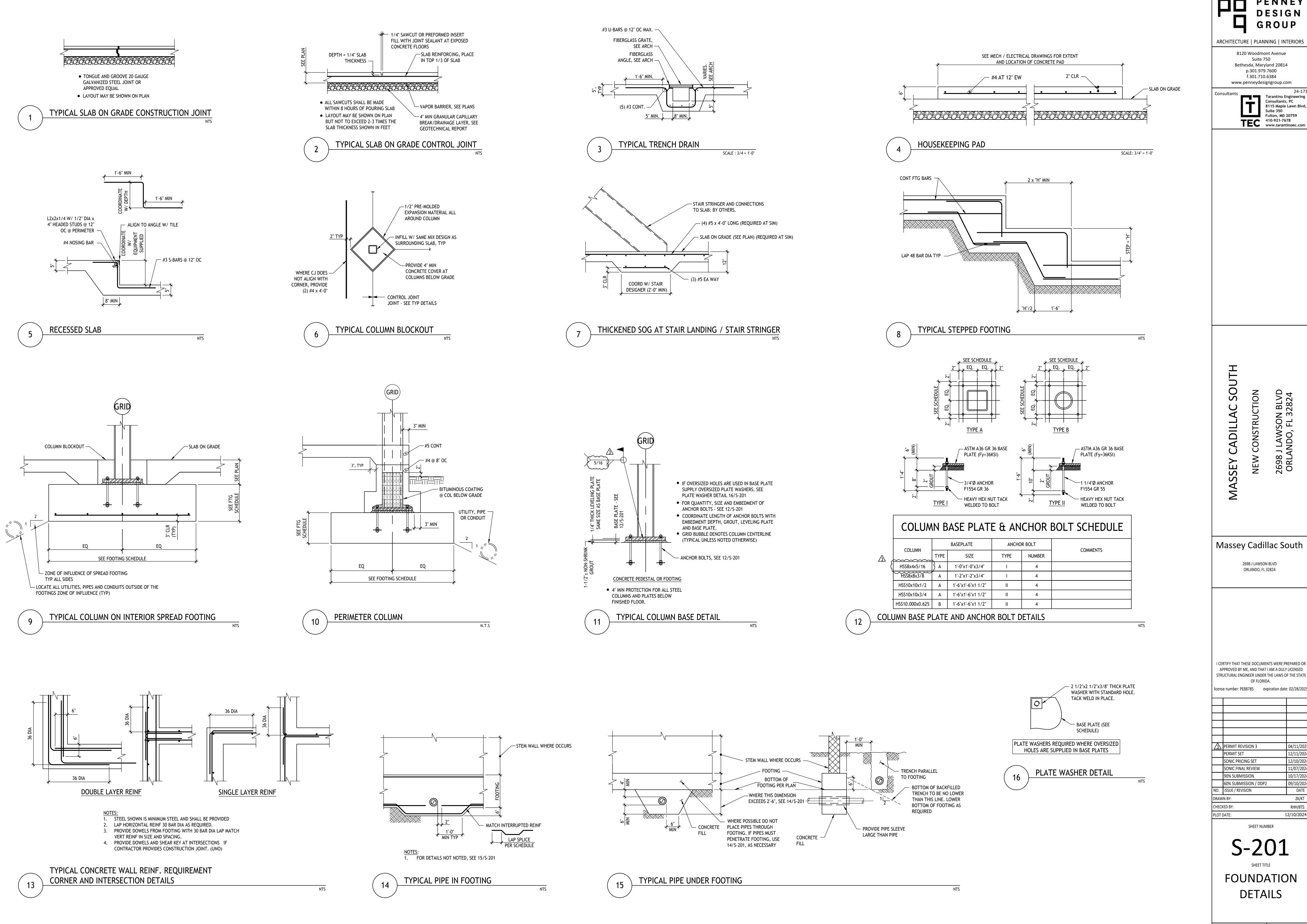
SHEET NUMBER

S-111

WIND C&C
ROOF PLAN OVERALL

ROJECT NUMBER:

SCALE: As indicated



PENNEY DESIGN

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384

www.penneydesigngroup.com Tarantino Engineering Consultants, PC 8115 Maple Lawn Blvd,

Fulton, MD 20759 TEC 410-921-7678 www.tarantinoec.com

CONSTRUCTION

Massey Cadillac South

2698 J LAWSON BLVD ORLANDO, FL 32824

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

PERMIT SET SONIC PRICING SET SONIC FINAL REVIEW 90% SUBMISSION

PERMIT REVISION 3 12/11/2024 11/07/2024 60% SUBMISSION / DDP2 09/10/2024 ZK/KT

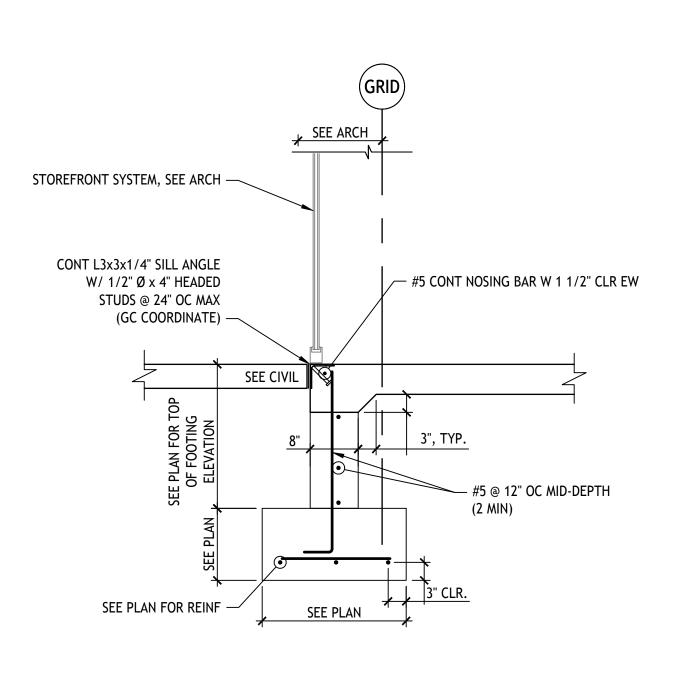
DRAWN BY: CHECKED BY: RHH/BTS 12/10/2024

SHEET NUMBER

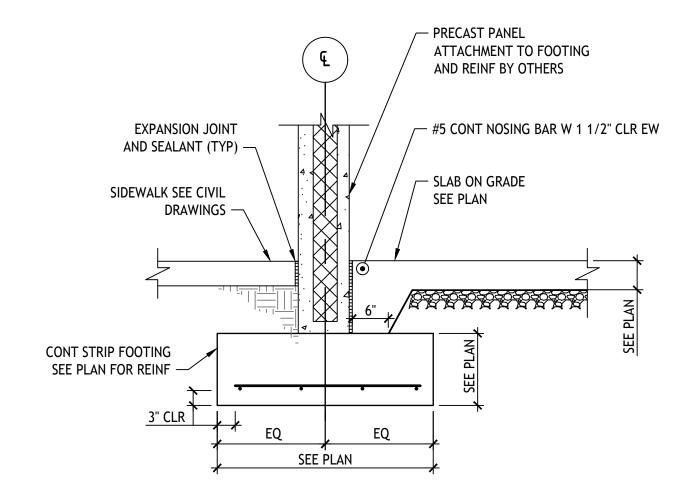
S-201

FOUNDATION DETAILS

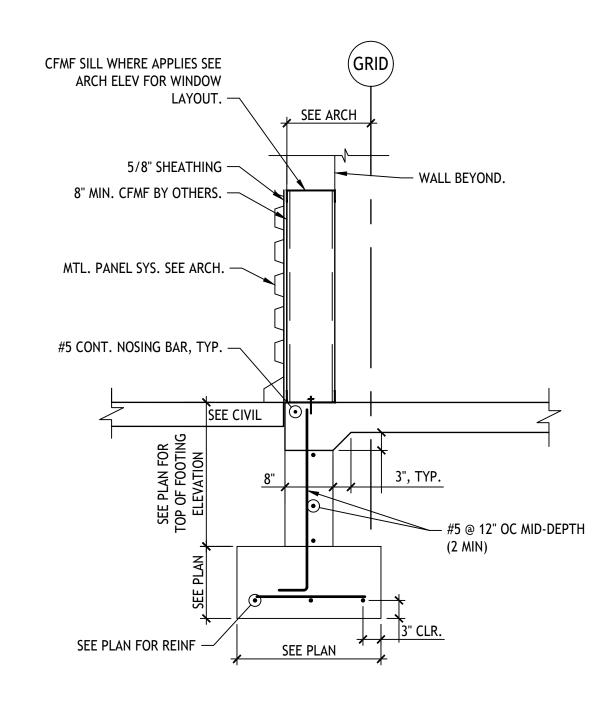
PROJECT NUMBER: SON002a



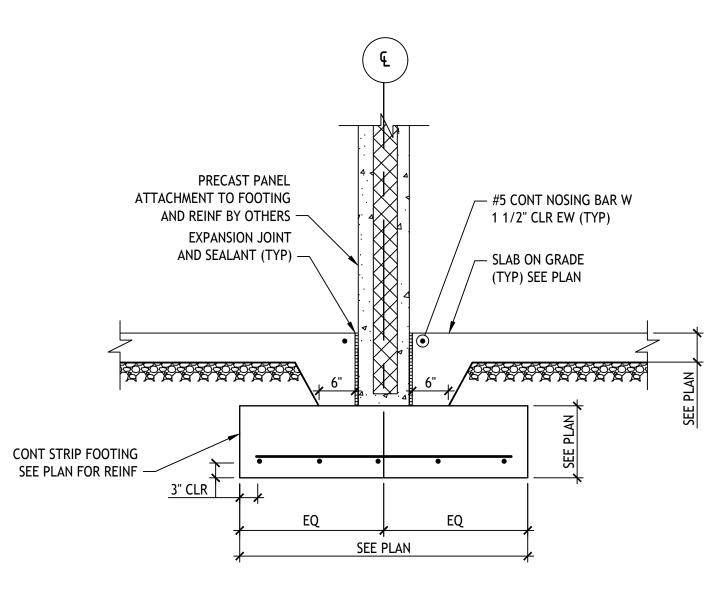




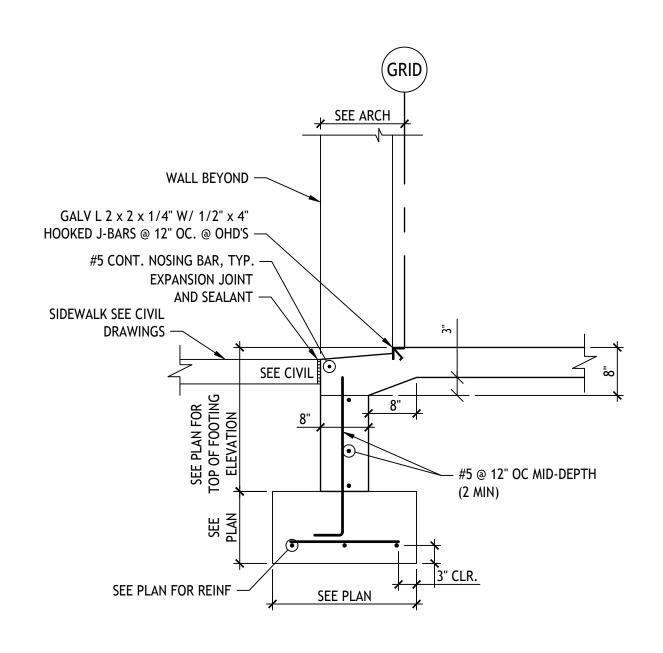
TYP EXTERIOR PRECAST WALL FOOTING



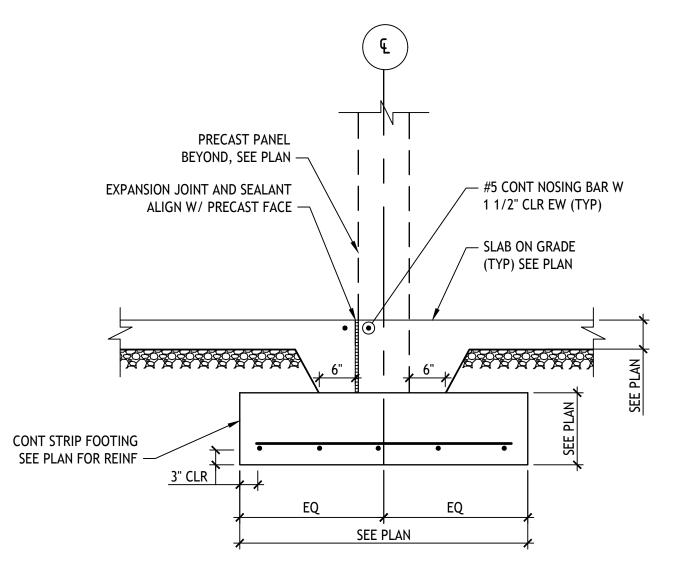
EXTERIOR FOUNDATION AT CFMF SCALE: 3/4 = 1'-0"



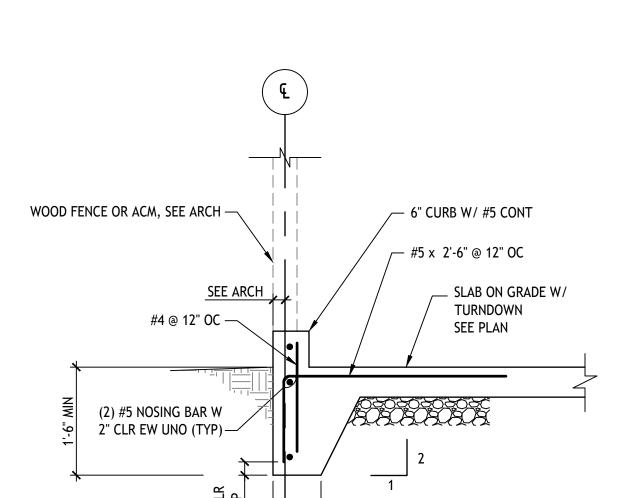
TYP INTERIOR PRECAST WALL FOOTING



TYP. EXTERIOR WALL FOUNDATION @ OHD SCALE: 3/4 = 1'-0"



TYP INTERIOR PRECAST DOOR THRESHOLD



3/4" = 1'-0"

TYPICAL SLAB ON GRADE TURNDOWN

PENNEY DESIGN

ARCHITECTURE | PLANNING | INTERIORS 8120 Woodmont Avenue Suite 750

Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384 www.penneydesigngroup.com



CADILLAC SOL NEW CONSTRUCTION 2698 J LAWSON BLVD ORLANDO, FL 32824

Massey Cadillac South

2698 J LAWSON BLVD

ORLANDO, FL 32824

STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

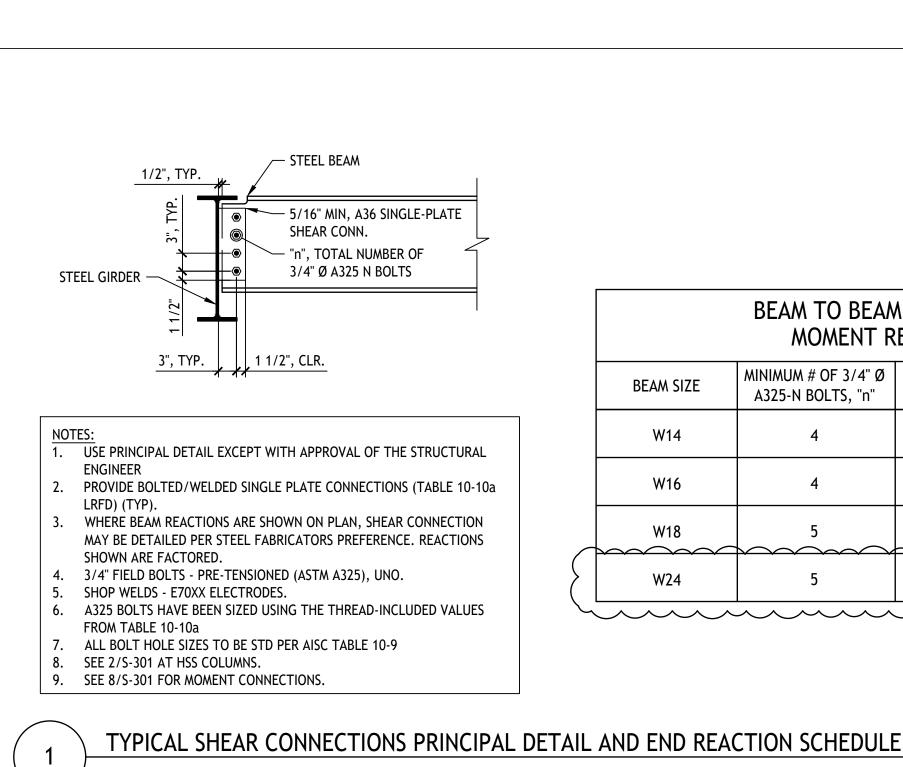
license number: PE88785 expiration date: 02/28/2025 PERMIT SET 12/11/2024 12/10/2024 11/07/2024 SONIC PRICING SET SONIC FINAL REVIEW 10/17/2024 09/10/2024 90% SUBMISSION

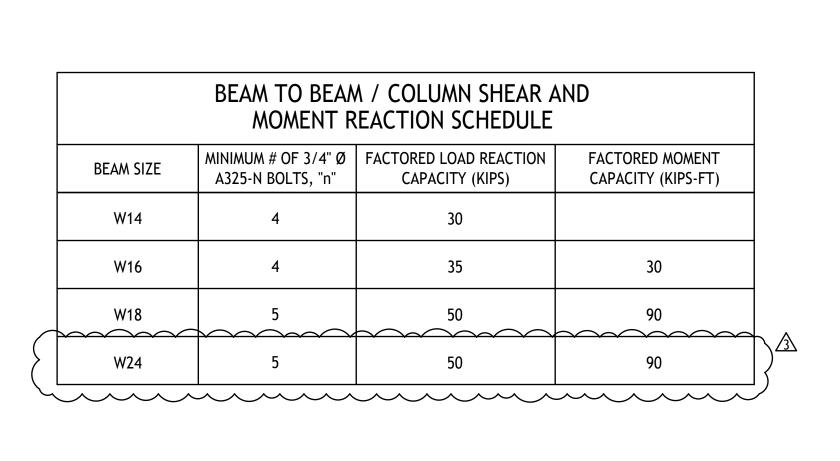
DRAWN BY: 12/10/2024

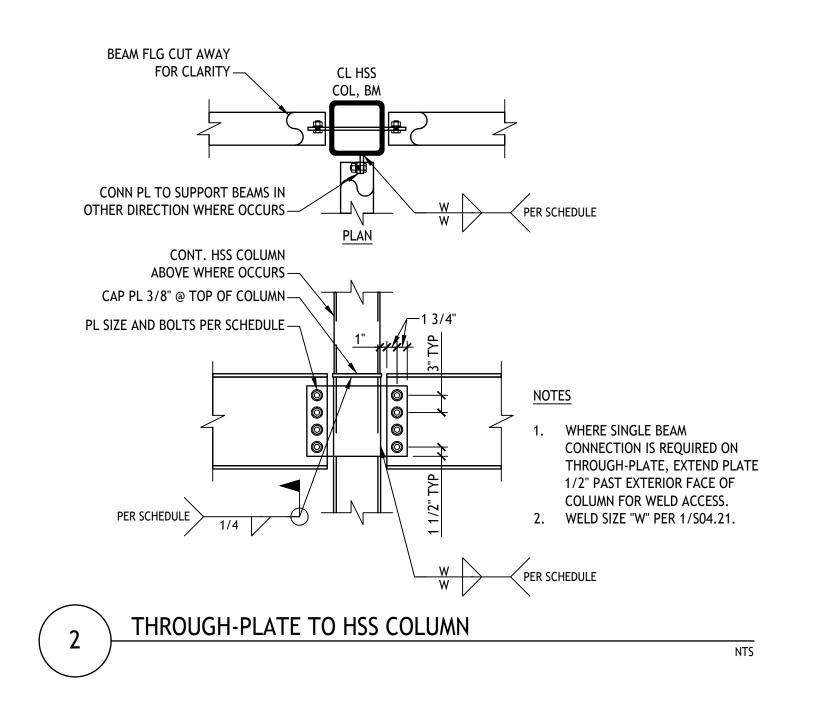
60% SUBMISSION / DDP2

SHEET NUMBER

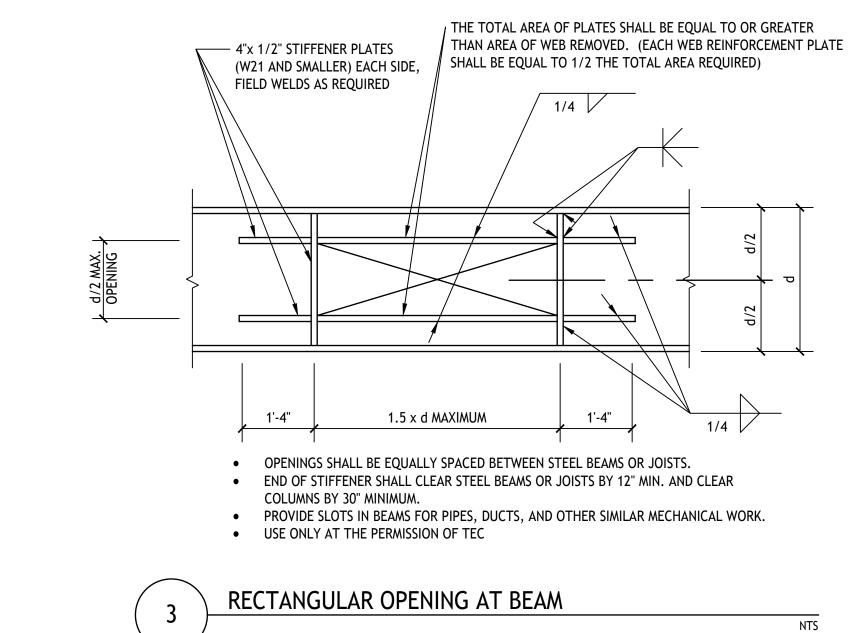
FOUNDATION DETAILS

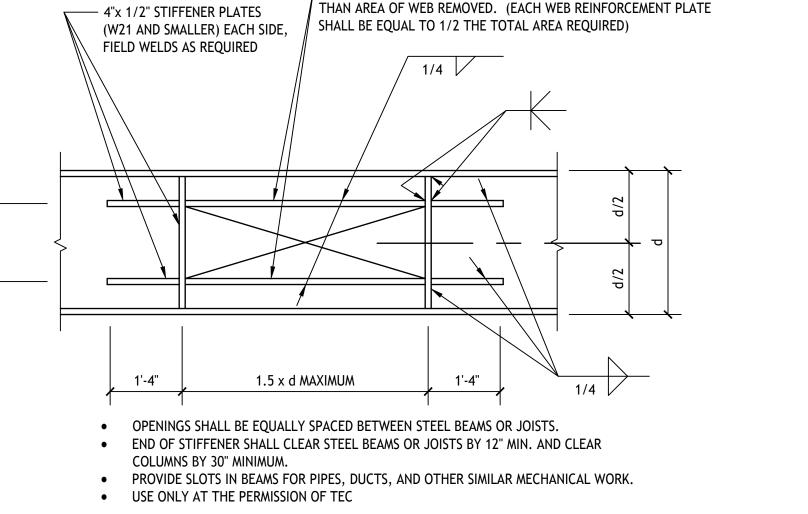


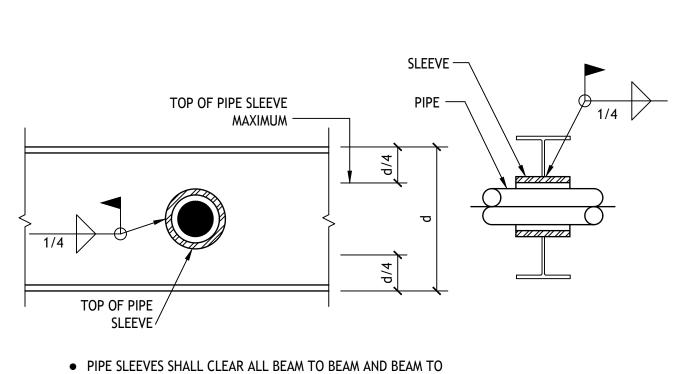




WF BEAM PER PLAN -





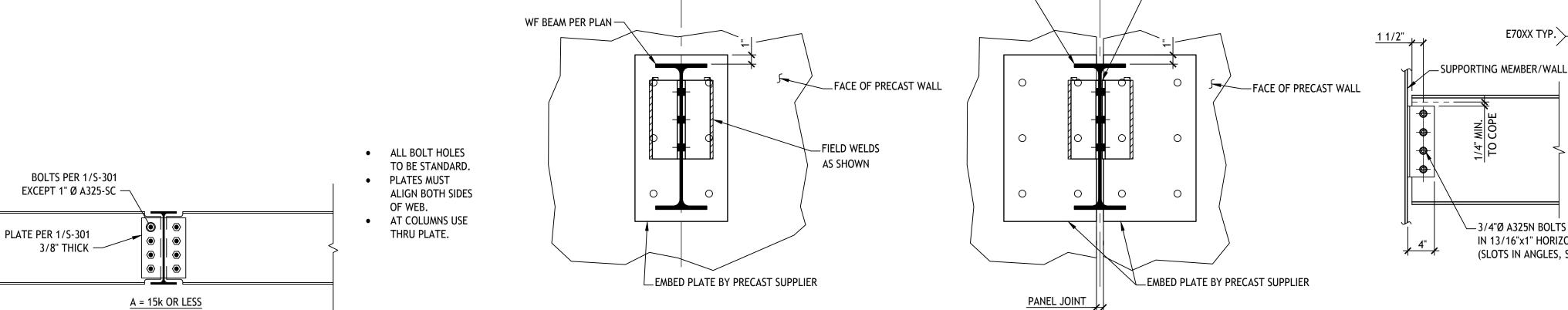


- COLUMN CONNECTIONS BY 30" MIN. PIPE SLEEVES SHALL BE MADE OF STEEL CONFORMING TO ASTM
- A-53, TYPES E OR S, GRADE B (FY = 35 KSI) PIPE SLEEVES SHALL BE SPACED NO CLOSER THAN 3'-0""
- IF INSIDE DIAMETER OF PIPE SLEEVE EXCEEDS d/3, USE TYPICAL
- SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR
- SIZE AND LOCATION OF OPENINGS. USE ONLY AT THE PERMISSION OF TEC

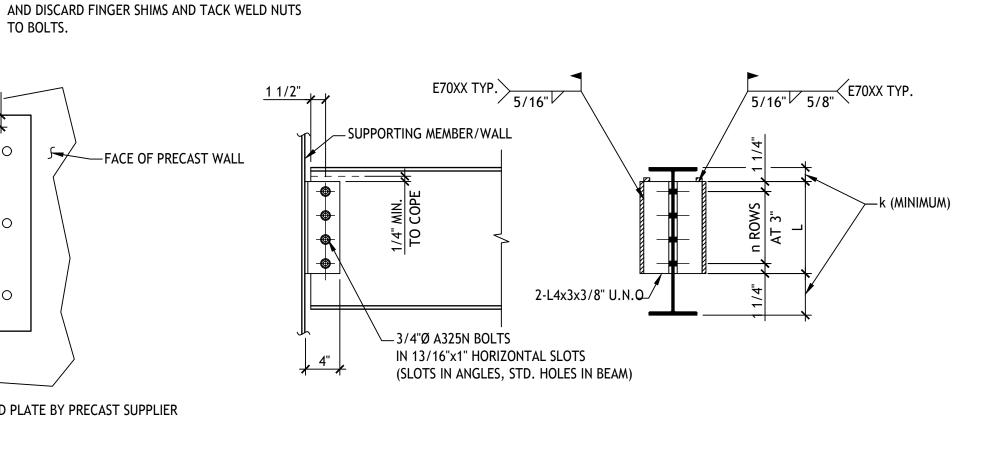
PIPE SLEEVE AT BEAM

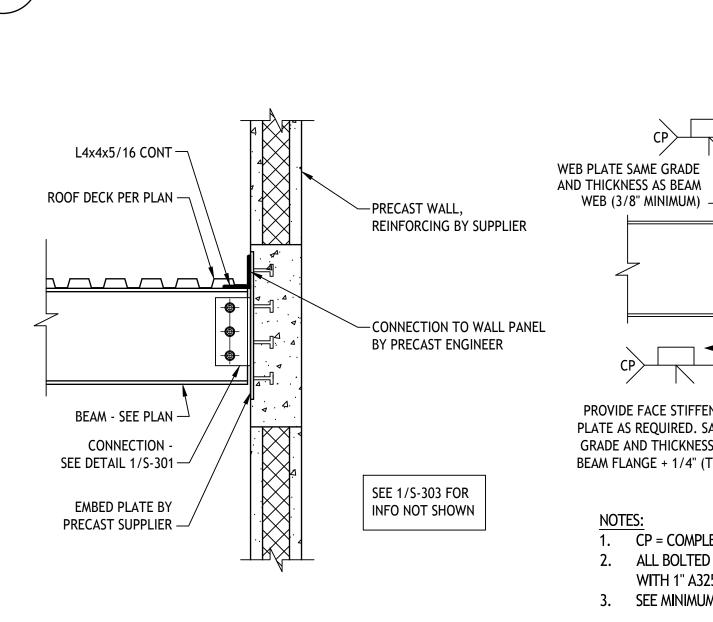
BEAM TO PRECAST WALL CONNECTION

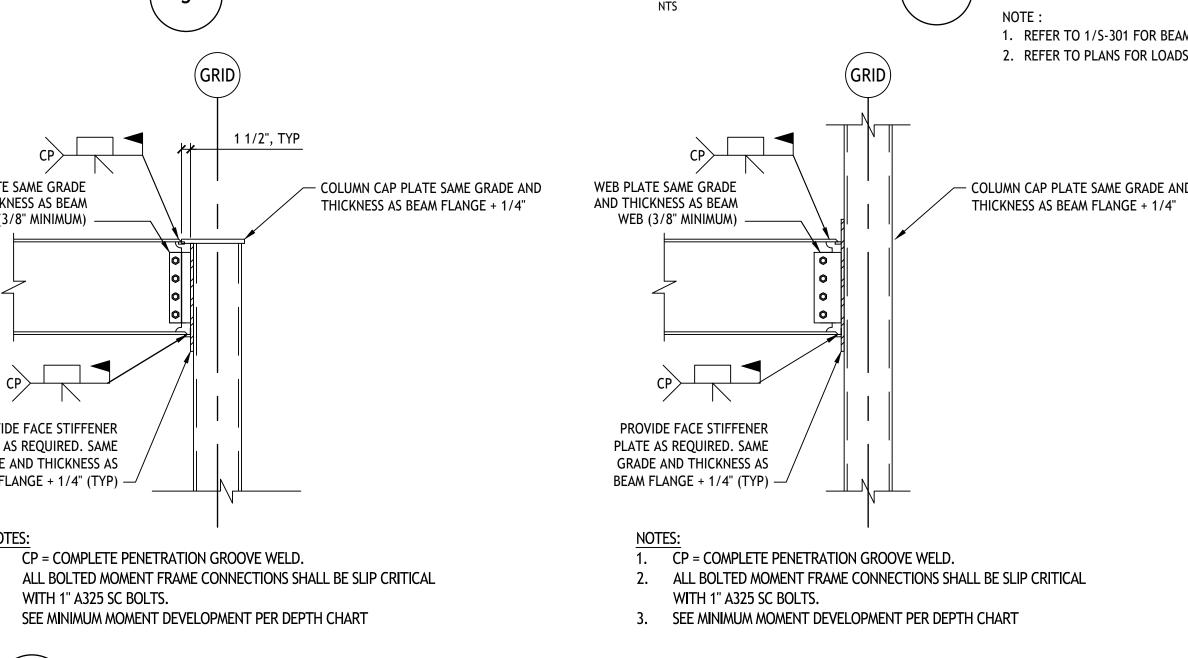
DETAIL FOR SLOTS IN BEAMS.

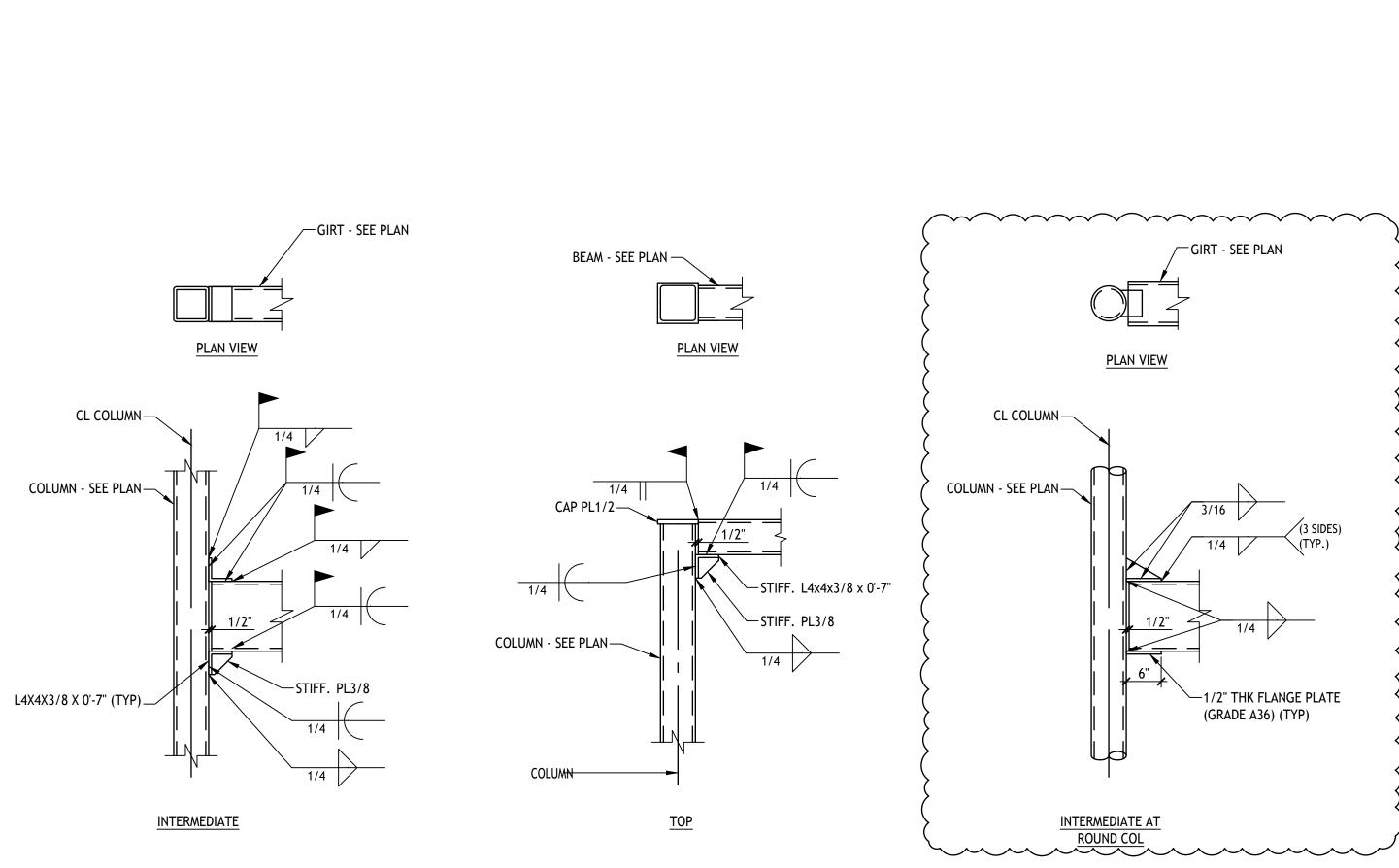


TYPICAL BEAM TO PRECAST WALL CONNECTION DETAILS



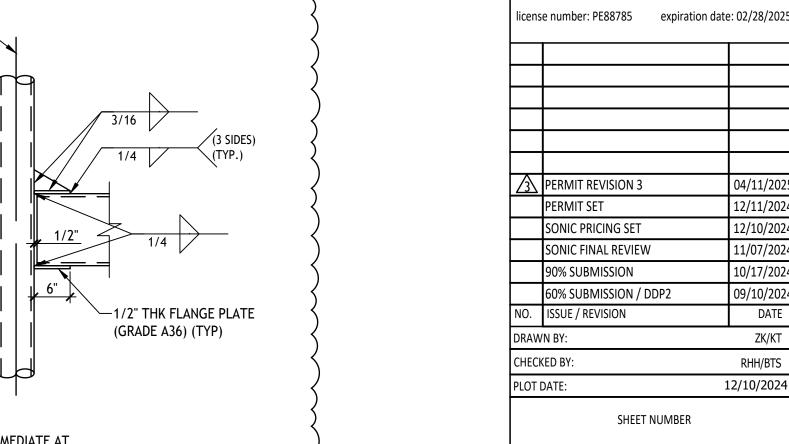






TYPICAL HSS GIRT TO HSS COLUMN CONNECTION DETAIL

PROVIDE 1/4" FINGER SHIM ON ONE SIDE OF BEAM, FINGER TIGHTEN BOLTS, WELD TO EMBED, REMOVE



SCALE: 3/4" = 1'-0"

PENNEY

DESIGN

Consultants, PC

Fulton, MD 20759

TEC 410-921-7678 www.tarantinoec.com

8115 Maple Lawn Blvd,

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue

Suite 750

Bethesda, Maryland 20814

p.301.979.7600

f.301.710.6384

www.penneydesigngroup.com

SO

CADILLAC

CONSTRUCTION

Massey Cadillac South

2698 J LAWSON BLVD

ORLANDO, FL 32824

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR

APPROVED BY ME, AND THAT I AM A DULY LICENSED

STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

12/11/2024

2/10/2024

11/07/2024

10/17/2024

09/10/2024

ZK/KT

12/10/2024

ROOF FRAMING **DETAILS**

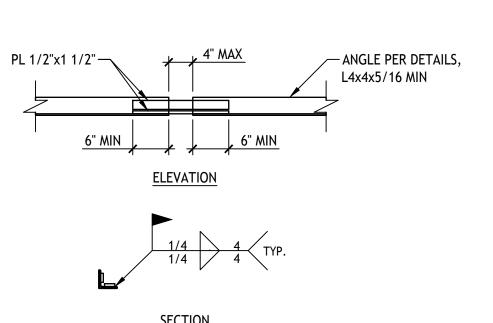
PROJECT NUMBER:

AS SHOWN

1. REFER TO 1/S-301 FOR BEAM REACTIONS. 2. REFER TO PLANS FOR LOADS EXCEEDING TYPICAL - COLUMN CAP PLATE SAME GRADE AND PROVIDE FACE STIFFENER PLATE AS REQUIRED. SAME GRADE AND THICKNESS AS BEAM FLANGE + 1/4" (TYP) —

MOMENT CONNECTIONS AT TOP OF COLUMN

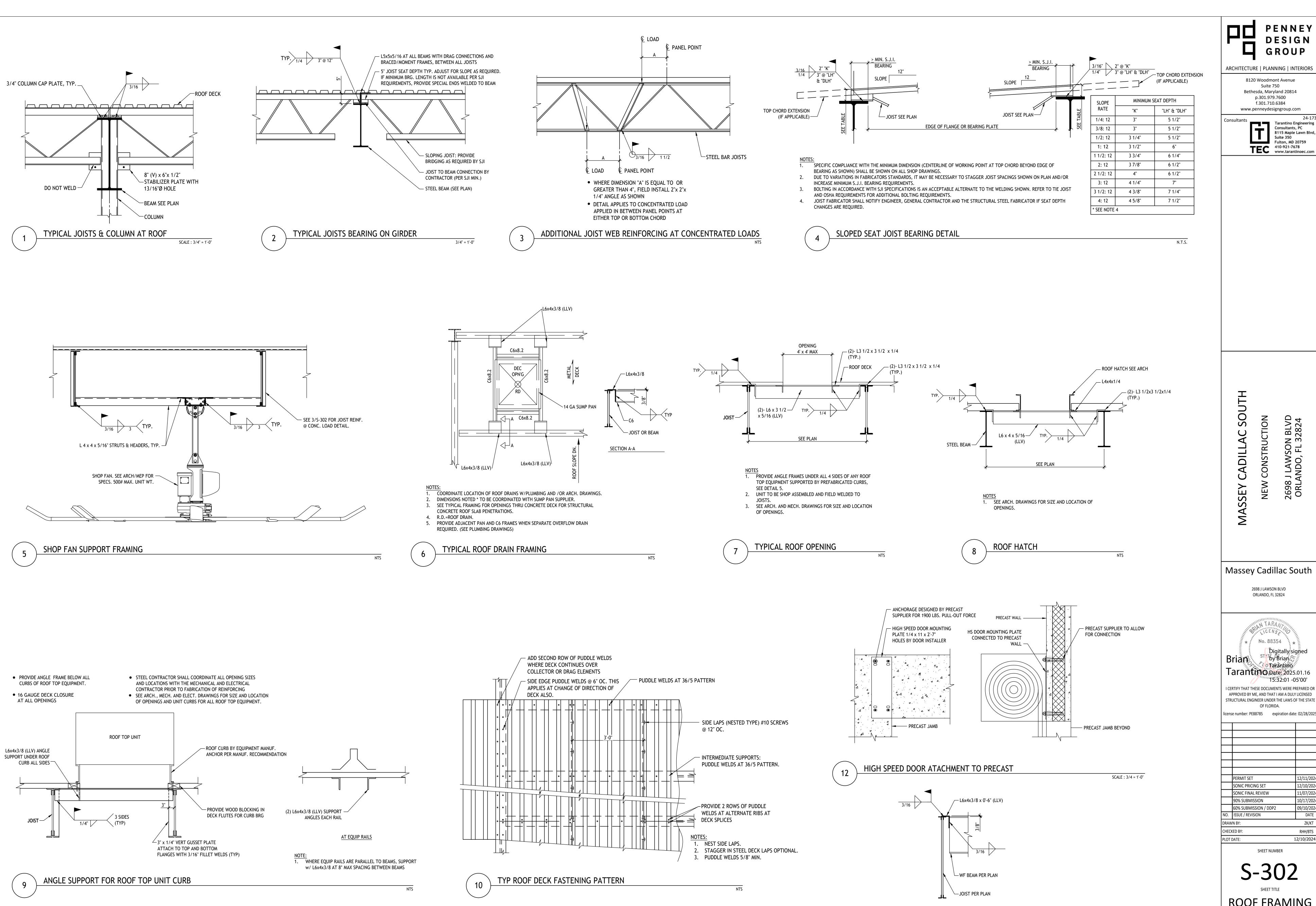
AXIAL DRAG CONNECTION



SCALE: 3/4" = 1'-0"

1'-0" MAX. CANTILEVER SEE PLANS AND ARCH. **∤**~~~~ ROOF DECK— ROOF PERIMETER ANGLES SPLICE DETAIL TYPICAL EDGE OF ROOF DECK

PROVIDE STIFFENER @ 32" OC FOR CANTILEVER OVER 1'-0"



PENNEY DESIGN

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384 www.penneydesigngroup.com

Tarantino Engineering Consultants, PC 8115 Maple Lawn Blvd, Fulton, MD 20759 TEC 410-921-7678 www.tarantinoec.com

2698 J LAWSON BLVD ORLANDO, FL 32824 CONSTRUCTION

Massey Cadillac South

2698 J LAWSON BLVD

No. 88354 Digitally signed ST Tby Brian

Tarantino Date: 2025.01.16 15:32:01 -05'00' I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

PERMIT SET 12/11/2024 SONIC PRICING SET 12/10/2024 11/07/2024 SONIC FINAL REVIEW 90% SUBMISSION 10/17/2024 60% SUBMISSION / DDP2 09/10/2024). ISSUE / REVISION

ZK/KT RHH/BTS 12/10/2024

SHEET NUMBER

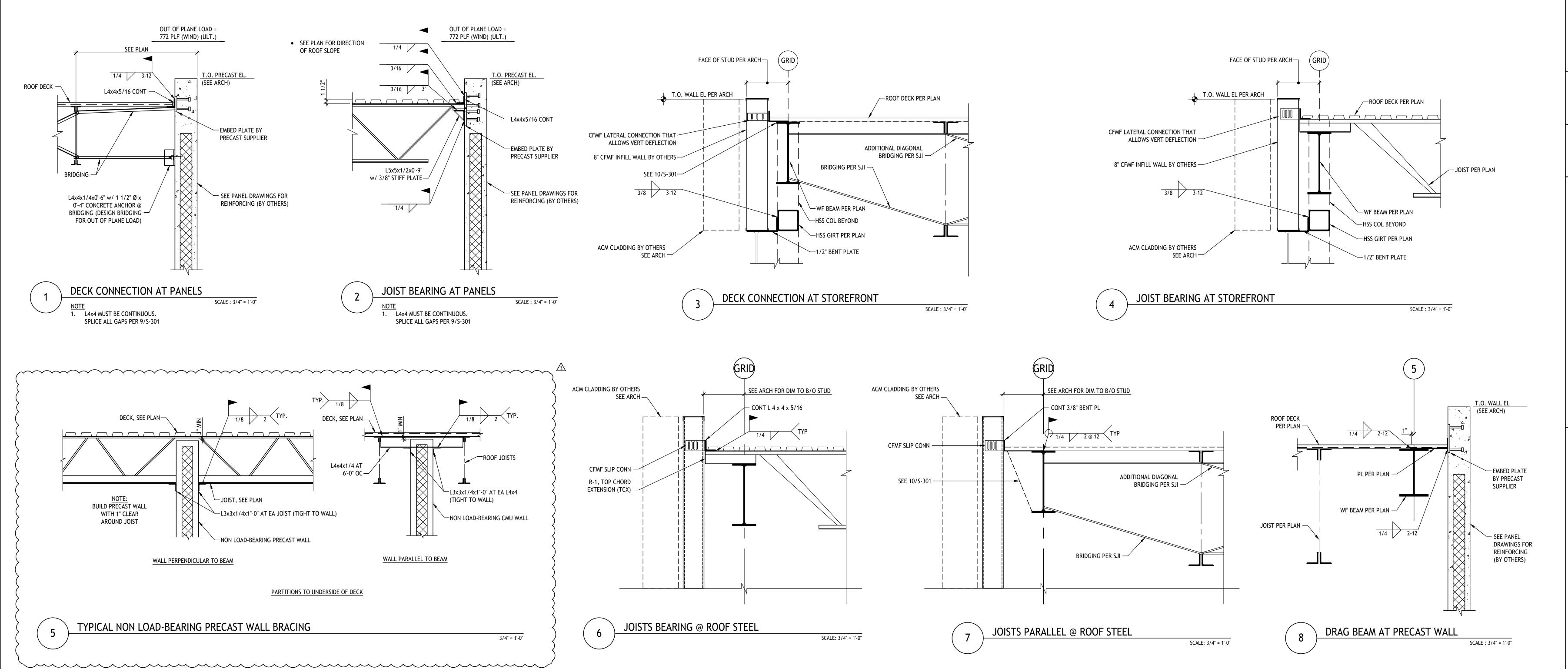
S-302

ROOF FRAMING DETAILS

BEAM TO JOIST CONNECTION

SCALE: 3/4 = 1'-0"

PROJECT NUMBER: SCALE:



COL PER PLAN

SCALE: 3/4" = 1'-0"



ARCHITECTURE | PLANNING | INTERIORS 8120 Woodmont Avenue

Suite 750 Bethesda, Maryland 20814 p.301.979.7600 f.301.710.6384

www.penneydesigngroup.com Consultants, PC 8115 Maple Lawn Blvd, Fulton, MD 20759

TEC 410-921-7678 www.tarantinoec.com

NEW CONSTRUCTION 2698 J LAWSON BLVD ORLANDO, FL 32824 CADILLAC

Massey Cadillac South

2698 J LAWSON BLVD ORLANDO, FL 32824

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA. license number: PE88785 expiration date: 02/28/2025

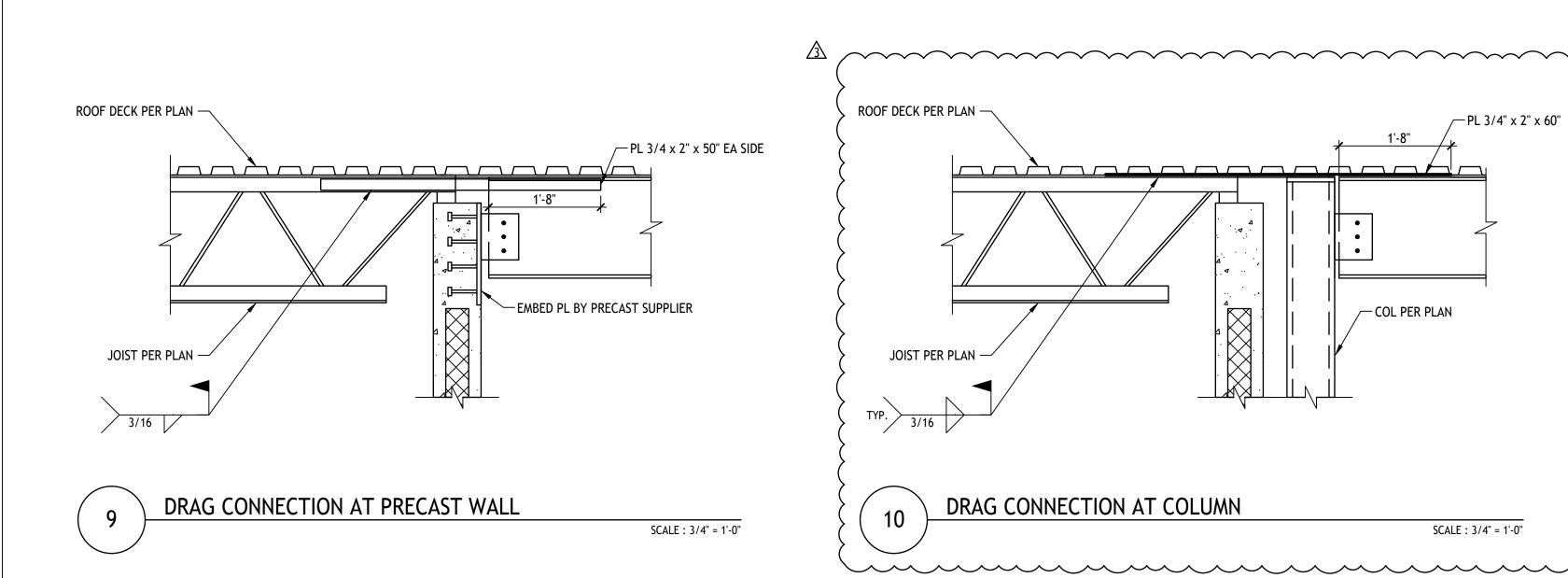
PERMIT REVISION 3 12/11/2024 PERMIT SET 12/10/2024 SONIC PRICING SET 11/07/2024 SONIC FINAL REVIEW 09/10/2024 60% SUBMISSION / DDP2 NO. ISSUE / REVISION
DRAWN BY: ZK/KT

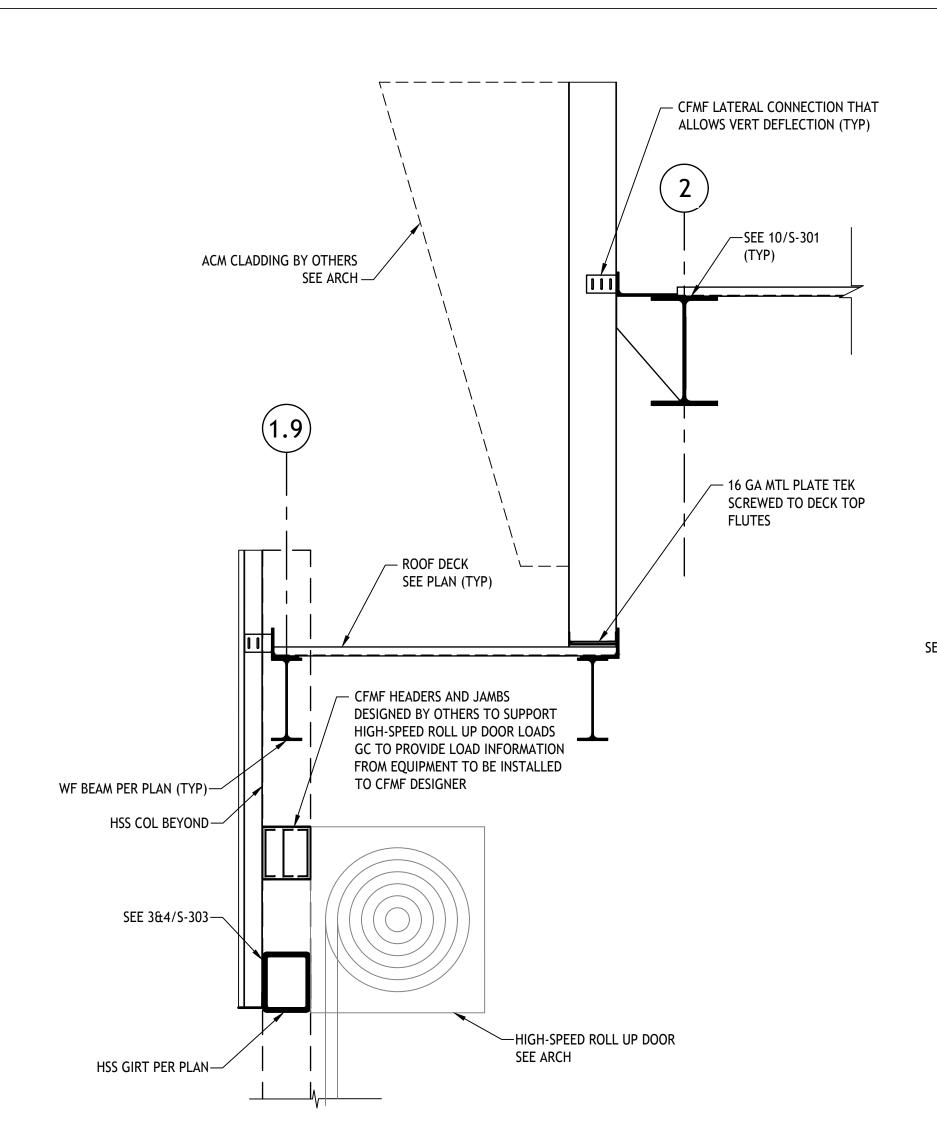
RHH/BTS PLOT DATE: 12/10/2024

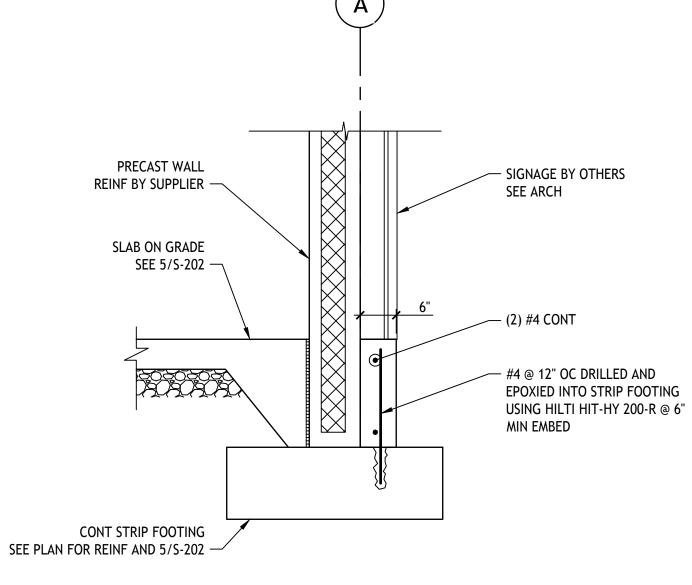
SHEET NUMBER

ROOF FRAMING DETAILS

PROJECT NUMBER:

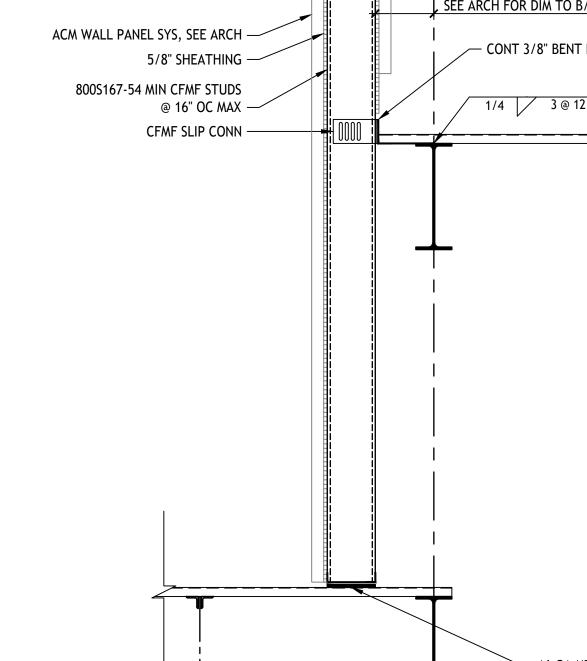


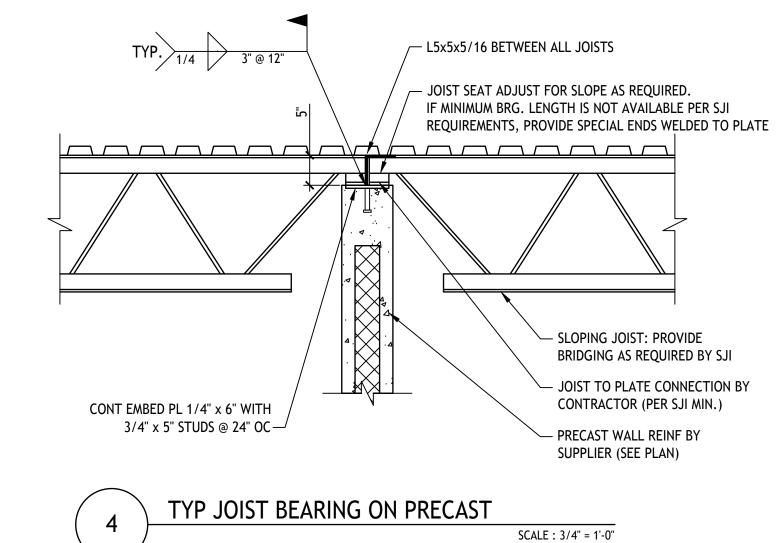




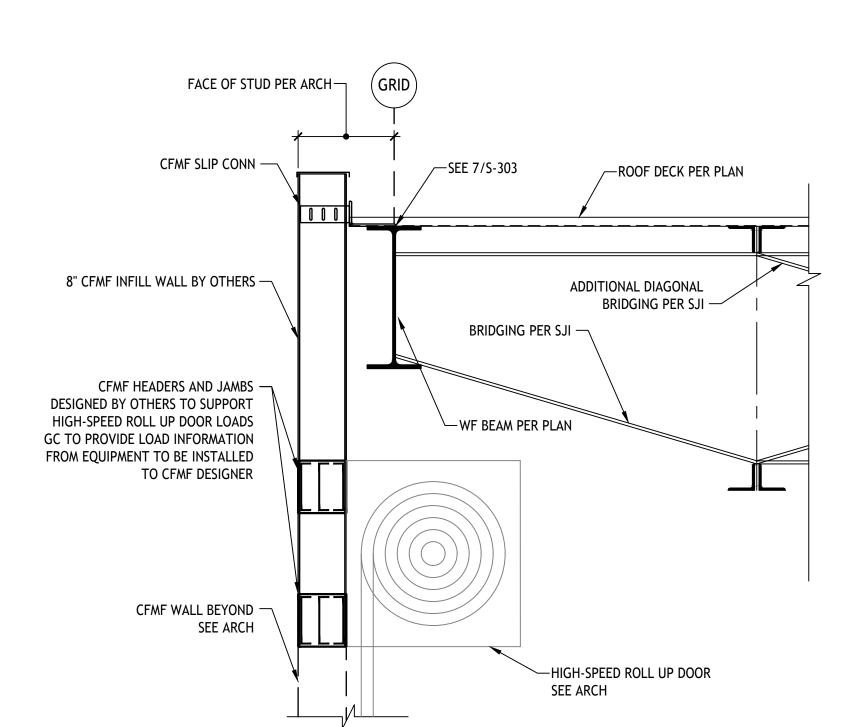
SECTION @ SOUTH SERVICE SIGNAGE

SCALE: 3/4" = 1'-0"





SECTION @ NEW VEHICLE DELIVERY SCALE: 3/4" = 1'-0"





SECTION @ HI TO LO ROOF TRANSITION SCALE: 3/4" = 1'-0"

NEW CONSTRUCTION

CADILLAC SOL

PENNEY

DESIGN

ARCHITECTURE | PLANNING | INTERIORS

8120 Woodmont Avenue Suite 750

Bethesda, Maryland 20814

p.301.979.7600

f.301.710.6384

www.penneydesigngroup.com

Tarantino Engineering
Consultants, PC
8115 Maple Lawn Blvd,
Suite 350
Eulton, MD 20759

Fulton, MD 20759 TEC 410-921-7678 www.tarantinoec.com

Massey Cadillac South

2698 J LAWSON BLVD

ORLANDO, FL 32824

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED STRUCTURAL ENGINEER UNDER THE LAWS OF THE STATE

OF FLORIDA. license number: PE88785 expiration date: 02/28/2025

	PERMIT SET	12/11/2024
	SONIC PRICING SET	12/10/2024
	SONIC FINAL REVIEW	11/07/2024
	90% SUBMISSION	10/17/2024
NO.	ISSUE / REVISION	DATE
DDAM	71/1/T	

SHEET NUMBER

SECTIONS

SCALE: AS SHOWN

